

[MS-BDCWPS]: Business Data Connectivity Web Service Protocol Specification

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Revision Summary

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1 Introduction

This document specifies the Business Data Connectivity Web Service Protocol. This protocol enables protocol clients to store and retrieve information about interfaces of business systems and annotations of these interfaces.

1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

access control entry (ACE)
anonymous user
Augmented Backus-Naur Form (ABNF)
Coordinated Universal Time (UTC)
GUID
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
language code identifier (LCID)
Unicode
XML

The following terms are defined in [\[MS-OFCGLOS\]](#):

AccessChecker
Action
ActionParameter
ActivityTrackingFilter
Association
AssociationGroup
AssociationNavigator
AssociationReference
Associator
BatchingPositionFilter
BatchingTerminationFilter
BinarySecurityDescriptorAccessor
BulkAssociatedIdEnumerator
BulkAssociationNavigator
BulkIdEnumerator
BulkSpecificFinder
Business Logic Module
ChangedIdEnumerator
ComparisonFilter
Creator
DataClass
DefaultValue
DeletedIdEnumerator
Deleter
Direction
Disassociator
empty GUID
endpoint
Entity
EntityInstance
field
FilterDescriptor

Finder
GenericInvoker
Identifier
IdEnumerator
InputFilter
InputOutputFilter
LastIdFilter
LimitFilter
line-of-business (LOB) system
LobSystem
LobSystemInstance
localized name
metadata store
MetadataCatalog
MetadataModel
MetadataObject
MetadataObjectId
Method
MethodInstance
Model
OutputFilter
PageNumberFilter
Parameter
partition
PasswordCredentialFilter
Property
ReturnTypeDescriptor
root TypeDescriptor
Scalar
security principal
Setting
Simple Object Access Protocol (SOAP)
SOAP action
SOAP body
SOAP fault
SOAP header
SpecificFinder
SsoTicketFilter
StreamAccessor
throttle configuration setting
TimeStampFilter
TypeDescriptor
TypeReflector
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
Updater
UserContextFilter
UserCultureFilter
UsernameCredentialFilter
UserProfileFilter
View
ViewAccessor
Web service
Web Services Description Language (WSDL)
WildcardFilter

WSDL message WSDL operation

The following terms are specific to this document:

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as described in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

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[MS-BDCMFFS] Microsoft Corporation, "[Business Data Connectivity Model File Format Specification](#)"

[MS-NRTP] Microsoft Corporation, "[.NET Remoting: Core Protocol Specification](#)".

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol Specification](#)"

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[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".

[MS-OFCGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".

[MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol Specification](#)"

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1.3 Protocol Overview (Synopsis)

Corporations have a variety of data stored in various **line-of-business (LOB) systems**. Typically, this data is accessible through the proprietary programming interface of enterprise software systems. It is ideal to provide access to such data through a set of normalized interfaces so that users do not have to learn system-specific or adapter-specific programming patterns for each system.

To facilitate this access, it is possible to store descriptions of the programmatic interface of the LOB systems by using data structures, such as **Methods**, **Parameters**, and **TypeDescriptors**, along with information about the LOB systems themselves, such as the server name, connection information, and steps on how to authenticate users, by using data structures, such as **LobSystem** and **LobSystemInstance**.

Methods can be considered to live in an **Entity** abstraction that represents a business data type, such as "customer" or "order". The LOB system interface definitions can then be transformed into normalized, stereotypical operations against Entities, such as "Read-An-Entity-Instance-By-Id", "Read-Entity-Instances", and "Check-Entity-Instance-Permissions" by annotating the LOB system interface descriptions with the annotations described by data structures, such as **MethodInstance**, **Identifier**, **FilterDescriptor**, and **Association**. These data structures, collectively called **MetadataObjects**, can be grouped into related collections called **MetadataModels** that describe a single LOB system. After a store of MetadataModels is made available, a runtime engine can use the store to convert a stereotypical normalized operation requested by an application that uses the protocol client into an LOB system-specific invocation programmatically.

This protocol enables a metadata client to create, read, update, and delete MetadataObjects in a **metadata store**. Additionally, for write operations, the protocol server provides validation and diagnostic errors, so that protocol clients can maintain the set of stored MetadataObjects in a state that satisfies certain semantic constraints for MetadataModels.

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#) and [\[SOAP1.2/2\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#), or **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#).

The following diagram shows the underlying messaging and transport stack used by the protocol:

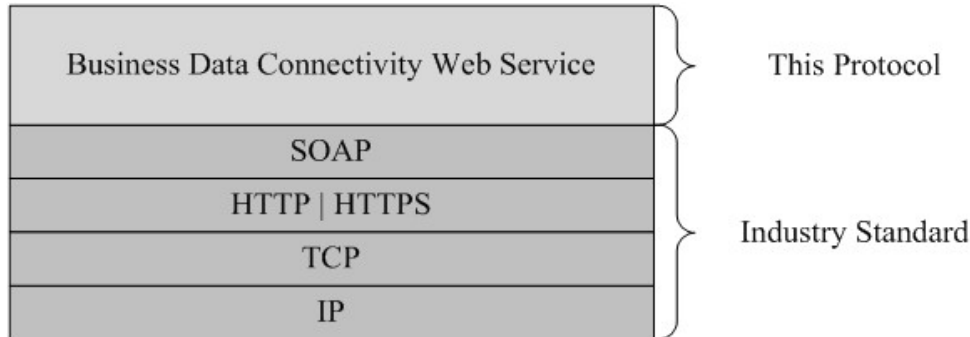


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint (4) URIs** that are known by protocol clients. The endpoint (4) URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [\[MS-SPTWS\]](#).

The protocol client obtains the requisite **ApplicationClassId** and **ApplicationVersion** values and the endpoint (4) URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either protocol.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server.

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [\[MS-SPSTWS\]](#).

1.6 Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are connected by high-bandwidth, low-latency network connections.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

Supported Transports: This protocol can be implemented by using transports that support sending SOAP messages, as specified in section 2.1.

Protocol Versions: This protocol is not versioned.

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The **WSDL** in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **present**, and **not null**.

2.1 Transport

Protocol servers **MUST** support SOAP over HTTP or HTTPS.

All protocol messages **MUST** be transported by using HTTP bindings at the transport level.

Protocol messages **MUST** be formatted as specified in either [\[SOAP1.1\]](#) section 4 or [\[SOAP1.2/1\]](#) section 5. Protocol server faults **MUST** be returned by using either HTTP status codes, as specified in [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified in [\[SOAP1.1\]](#) section 4.4 or [\[SOAP1.2/1\]](#) section 5.4.

If the HTTPS transport is used, a server certificate **MUST** be deployed.

This protocol **MAY** transmit an additional SOAP header, the **ServiceContext** header, as specified in [\[MS-SPSTWS\]](#).

This protocol does not define any means for activating a protocol server or protocol client. The protocol server **MUST** be configured and begin listening in an implementation-specific way. In addition, the protocol client **MUST** know the format and transport that is used by the protocol server, for example, the SOAP format over an HTTP transport.

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses XML Schema, as specified in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and WSDL, as specified in [\[WSDL\]](#).

2.2.1 Namespaces

This specification defines and references various XML namespaces by using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates an XML namespace prefix with each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
(none)	http://www.microsoft.com/Office/2009/BusinessDataCatalog	
q<#>	q1-q223 are defined inline in the schema and do not have consistent global meanings. The corresponding namespace must be determined from the context.	
ser	http://schemas.microsoft.com/2003/10/Serialization/	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://www.microsoft.com/Office/2009/BusinessDataCatalog	

Prefix	Namespace URI	Reference
wsam	http://www.w3.org/2007/05/addressing/metadata	[WSA1.0 Metadata]
wsdl	http://schemas.xmlsoap.org/wsdl	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	

2.2.2 Messages

None.

2.2.3 Elements

This specification does not define any common XML Schema element definitions.

2.2.4 Complex Types

The following sections specify the set of common XML Schema complex type definitions defined by this specification. XML Schema complex type definitions that are specific to a particular operation are described with the operation.

The definitions of some complex types in this section make use of **Augmented Backus-Naur Form (ABNF)** representation as specified in [\[RFC5234\]](#).

Complex types designated as error complex types and returned as responses by the protocol server MUST be formatted as SOAP faults, as specified in [\[SOAP1.2/1\]](#) section 5.4.

Code: MUST contain a **Value** element, which MUST be set to "Sender" and MAY contain a **Subcode** element.

Reason: MUST contain a **Text** element, which MUST be ignored by the protocol client.

Detail: MUST either contain the error complex type or be empty.

The following table summarizes the set of common XML Schema complex type definitions defined by this specification. XML Schema complex type definitions that are specific to a particular operation are described with the operation.

Complex Type	Description
AccessControlEntryStruct	The AccessControlEntryStruct complex type contains information about an access control entry (ACE) . This complex type is defined as follows.
AccessDeniedException	The AccessDeniedException error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of a SOAP fault as specified in section 2.2.4 . This complex type is defined as follows.
AccessDeniedExceptionState	The AccessDeniedExceptionState error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of

Complex Type	Description
	a SOAP fault as specified in section 2.2.4 . This complex type is defined as follows.
ActionParameterStruct	The ActionParameterStruct complex type contains information about an ActionParameter . This complex type is defined as follows.
ActionStruct	The ActionStruct complex type contains information about an Action . This complex type is defined as follows.
AdministrationMetadataCatalogStruct	The AdministrationMetadataCatalogStruct contains information about a MetadataCatalog . This complex type is defined as follows.
ArgumentException	The ArgumentException error complex type contains information about a protocol-server-side error caused by an argument with an invalid value. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
ArgumentNullException	The ArgumentNullException error complex type contains information about a protocol-server-side error caused by a NULL value in an argument that does not accept NULL values. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
ArgumentOutOfRangeException	The ArgumentOutOfRangeException error complex type contains information about a protocol-server-side error caused by an argument with a value outside the range of permissible values. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
ArrayOfAccessControlEntryStruct	The ArrayOfAccessControlEntryStruct complex type is a list of complex types, each of which represents an access control entry. This complex type is defined as follows:
ArrayOfAssociationStruct	The ArrayOfAssociationStruct complex type is a list of complex types, each of which represents an Association. This complex type is defined as follows:
ArrayOfEntityStruct	The ArrayOfEntityStruct complex type is a list of complex types, each of which represents an Entity. This complex type is defined as follows:
ArrayOfLobSystemStruct	The ArrayOfLobSystemStruct complex type is a list of complex types, each of which represents an LobSystem. This complex type is defined as follows.
ArrayOfLocalizedNameStruct	The ArrayOfLocalizedNameStruct complex type is a list of complex types, each of which represents a localized name . This complex type is defined as follows.
ArrayOfMethodInstanceStruct	The ArrayOfMethodInstanceStruct complex type is a list of complex types, each of which represents a MethodInstance. This complex type is defined as follows.
ArrayOfModelStruct	The ArrayOfModelStruct complex type is a list of complex types, each of which represents a Model . This

Complex Type	Description
	complex type is defined as follows.
ArrayOfPropertyStruct	The ArrayOfPropertyStruct complex type is a list of complex types, each of which represents a Property . This complex type is defined as follows.
ArrayOfstring	The ArrayOfString complex type represents a list of xs:string as specified in [XMLSCHEMA2] . This complex type is defined as follows.
ArrayOfTypeDescriptorStruct	The ArrayOfTypeDescriptorStruct complex type is a list of complex types, each of which represents a TypeDescriptor. This complex type is defined as follows.
ArrayOfunsignedInt	The ArrayOfunsignedInt complex type represents a list of unsigned xs:unsignedInt as specified in [XMLSCHEMA2] . This complex type is defined as follows.
AssociationGroupStruct	<p>The AssociationGroupStruct complex type contains information about an AssociationGroup. Each Association referenced by the AssociationReferences contained by the AssociationGroup is identified by the values in the same index of the following lists:</p> <ul style="list-style-type: none"> ▪ associationEntityNames ▪ associationEntityNamespaces ▪ associationNames ▪ associationIds
AssociationReferenceStruct	The AssociationReferenceStruct complex type contains information about an AssociationReference. This complex type is defined as follows.
AssociationStruct	The AssociationStruct complex type MUST contain information about an Association. A namespace at any index of the sourceEntityNamespaces element of this complex type MUST be the namespace of the Entity whose name is at the same index of the sourceEntityNames element. This complex type is defined as follows.
BdcException	The BdcException error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a SOAP fault , as specified in section 2.2.4 . This complex type is defined as follows.
BdcExceptionState	The BdcExceptionState error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.

Complex Type	Description
ComplexValueStruct	The ComplexValueStruct complex type MUST contain information about the data types related to the element containing this complex type. This complex type is defined as follows:
ConcurrentModificationExceptionState	The ConcurrentModificationExceptionState error complex type contains information about a protocol-server-side error caused by concurrent modification of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4 . This complex type is defined as follows.
DataClassStruct	The DataClassStruct complex type MUST contain information about a DataClass . This complex type is defined as follows.
DefaultValueStruct	The DefaultValueStruct complex type contains details of a DefaultValue of a TypeDescriptor. This complex type is defined as follows.
DuplicateMetadataObjectExceptionState	The DuplicateMetadataObjectExceptionState error complex type contains information about a protocol-server-side error caused by duplication of a MetadataObject. This complex type MUST only be included as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
EntityStruct	The EntityStruct complex type contains information about an Entity. This complex type is defined as follows.
ExceededMetadataObjectLimitExceptionState	The ExceededMetadataObjectLimitExceptionState error complex type contains information about a protocol-server-side error caused when a MetadataObject exceeds an implementation-specific limit to the number of MetadataObjects that it can contain or refer to. This complex type MUST only be included as part of a SOAP fault as section 2.2.4 . This complex type is defined as follows:
Exception	The Exception error complex type contains information about a protocol-server-side error. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
FilterDescriptorStruct	The FilterDescriptorStruct complex type contains information about a FilterDescriptor. This complex type is defined as follows.
IdentifierStruct	The IdentifierStruct complex type contains information about an Identifier. This complex type is defined as follows.
InvalidMetadataObjectExceptionState	The InvalidMetadataObjectExceptionState error complex type contains information about a protocol-server-side error caused by invalid attributes of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4 . This complex type is defined as follows.

Complex Type	Description
InvalidMetadataPropertyExceptionState	The InvalidMetadataPropertyExceptionState error complex type contains information about a protocol-server-side error caused by an invalid Property detected in the set of Properties of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4 . This complex type is defined as follows.
InvalidOperationException	The InvalidOperationException error complex type contains information about a protocol-server-side error caused by an attempt to perform an operation that is invalid for the current state of the protocol server. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
LobSystemInstanceStruct	The LobSystemInstanceStruct complex type contains information about an LobSystemInstance. This complex type is defined as follows.
LobSystemStruct	The LobSystemStruct complex type contains information about an LobSystem. This complex type is defined as follows.
LocalizedNameStruct	The LocalizedNameStruct complex type contains information about a localized name. This complex type is defined as follows.
MetadataException	The MetadataException error complex type contains information about a protocol-server-side error caused by a syntactic or semantic violation of a MetadataModel constraint in the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
MetadataObjectNotFoundExceptionState	The MetadataObjectNotFoundExceptionState error complex type contains information about a protocol-server-side error caused when a requested MetadataObject is not found. This complex type MUST only be included as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
MetadataObjectStruct	The MetadataObjectStruct complex type contains the attributes of the MetadataObject. This complex type is defined as follows.
MethodInstanceStruct	The MethodInstanceStruct complex type contains information about a MethodInstance. This complex type is defined as follows.
MethodStruct	The MethodStruct complex type contains information about a Method. This complex type is defined as follows:
ModelStruct	The ModelStruct complex type contains information about a Model. This complex type is defined as follows.
PackageFormatExceptionState	The PackageFormatExceptionState error complex type contains information about a protocol-server-side error caused when specified XML does not conform to the Business Data Connectivity Model File Format as specified

Complex Type	Description
	in [MS-BDCMFFS] or the MetadataModel contained in the specified XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] has invalid configuration of MetadataObjects or their attributes. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4 . This complex type is defined as follows.
ParameterStruct	The ParameterStruct complex type contains information about a Parameter. This complex type is defined as follows.
PropertyStruct	The PropertyStruct complex type contains information about a Property. This complex type is defined as follows.
ProxyGenerationResult	The ProxyGenerationResult complex type contains information about Business Logic Modules <1> . This complex type is defined as follows.
SafetyNetStruct	The SafetyNetStruct complex type represents a single throttle configuration setting that encapsulates configuration information to support implementation-specific time-and-space-limiting algorithms in the protocol client when running operations against a line-of-business (LOB) system. For example, an implementation of the protocol that reads MetadataModels and uses them to run operations against an LOB system could limit the number of concurrent operations against the LOB system, abort an operation after a certain amount of time has expired, or reject operations that read or write more than a specific quantity of data. This complex type is defined as follows.
SystemException	The SystemException error complex type contains information about a protocol-server-side error. This complex type MUST be included only as part of a SOAP fault, as specified in section 2.2.4 . This complex type is defined as follows.
TypeDescriptorStruct	The TypeDescriptorStruct complex type contains information about a TypeDescriptor. This complex type is defined as follows.
Version	The Version complex type MUST contain information about the version of a DataClass. This complex type is defined as follows.

2.2.4.1 AccessControlEntryStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AccessControlEntryStruct** complex type contains information about an access control entry (ACE). This complex type is defined as follows.

```
<xs:complexType name="AccessControlEntryStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="principalBinaryForm" nillable="true"
      type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="principalDisplayName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```



```

    <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="rights" type="xs:unsignedLong"/>
  </xs:sequence>
</xs:complexType>

```

principalBinaryForm: This element MUST be ignored by the protocol server. This element MUST be ignored by the protocol client.

principalDisplayName: This element MUST be ignored by the protocol server. This element MUST be ignored by the protocol client.

principalName: The encoded name of a **security principal (1)**. This element MUST be present. The value of this element MUST be as specified for the **AttributeValue** of the **Security** element of an RSTR message, as specified in [\[MS-SPSTWS\]](#) section 2.2.2.2.1.1.4.

rights: The permissions available to a security principal (1) to perform operations on or by using a MetadataObject. This element MUST be present. The value of this element MUST be the sum of the values of the corresponding rights in the **BdcRights** enumeration.

2.2.4.2 AccessDeniedException

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>

The **AccessDeniedException** error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of a SOAP fault as specified in section [2.2.4](#). This complex type is defined as follows.

```

<xs:complexType name="AccessDeniedException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BdcException"/>
  </xs:complexContent>
</xs:complexType>

```

2.2.4.3 AccessDeniedExceptionState

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure>

The **AccessDeniedExceptionState** error complex type contains information about a protocol-server-side error caused by a violation of access control on the metadata store. This complex type MUST be included only as part of a SOAP fault as specified in section [2.2.4](#). This complex type is defined as follows.

```

<xs:complexType name="AccessDeniedExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BdcExceptionState">
      <xs:sequence>
        <xs:element minOccurs="0" name="CurrentIdentity" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="SecurableObjectTypeName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```

```
</xs:complexType>
```

CurrentIdentity: The security principal (1) in whose context the protocol client is operating when the violation of access control occurs. This element **MUST** be present.

SecurableObjectName: The name of the MetadataObject on which the access control violation occurs. This element **MUST** be present.

SecurableObjectType: The type of MetadataObject on which the access control violation occurs. This element **MUST** be present.

2.2.4.4 ActionParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ActionParameterStruct** complex type contains information about an **ActionParameter**. This complex type is defined as follows.

```
<xs:complexType name="ActionParameterStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="index" type="xs:unsignedByte"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

actionId: The **MetadataObjectId** of the Action that contains this **ActionParameter**. This element **MUST** be present. The value of this element **MUST** be in the range from 1 through 0x7fffffff.

index: The index of the ActionParameter. This index corresponds to the parameter in the command of the Action that contains this ActionParameter. The index values of ActionParameters that are contained by the same Action **MUST** be greater than or equal to zero and less than the number of ActionParameters that are contained by the Action. The index values of ActionParameters **MUST** be unique across all ActionParameters that are contained by the same Action. [<2>](#)

2.2.4.5 ActionStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ActionStruct** complex type contains information about an Action. This complex type is defined as follows.

```
<xs:complexType name="ActionStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="imageUrl" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="isOpenedInNewWindow" type="xs:boolean"/>
        <xs:element minOccurs="0" name="position" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

entityId: The MetadataObjectId of the Entity that contains the Action. This element **MUST** be present. The value of this element **MUST** be in the range from 1 through 0x7fffffff.

imageUrl: The implementation-specific location of the resource that is used to represent the Action in the user interface (UI). The application that utilizes the protocol client typically uses the resource in the specified location to represent the Action in the UI, possibly along with the localized name of the Action. This element **MUST** be present.

isOpenedInNewWindow: Specifies whether the results of running an Action are presented in a new UI context. The value **MUST** be **TRUE** if the results are displayed in a new UI context; otherwise it **MUST** be **FALSE**. The application that utilizes the protocol client typically uses this value as guidance on creating new UI context when the Action is run. This element **MUST** be present.

position: The order of an Action among the Actions of an Entity. The application that utilizes the protocol client typically uses this ordering as guidance in an implementation-specific algorithm that represents the Actions in the UI. This element **MUST** be present.

url: The implementation-specific parameterized command associated with the Action. The parameters of the command **MUST** correspond to ActionParameters of this Action. This element **MUST** be present.

2.2.4.6 AdministrationMetadataCatalogStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AdministrationMetadataCatalogStruct** contains information about a MetadataCatalog. This complex type is defined as follows.

```

<xs:complexType name="AdministrationMetadataCatalogStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

2.2.4.7 ArgumentException

Namespace: http://schemas.datacontract.org/2004/07/System

The **ArgumentException** error complex type contains information about a protocol-server-side error caused by an argument with an invalid value. This complex type **MUST** be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```

<xs:complexType name="ArgumentException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:SystemException"/>
  </xs:complexContent>
</xs:complexType>

```

2.2.4.8 ArgumentNullException

Namespace: http://schemas.datacontract.org/2004/07/System

The **ArgumentNullException** error complex type contains information about a protocol-server-side error caused by a NULL value in an argument that does not accept NULL values. This complex type **MUST** be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="ArgumentNullException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.9 ArgumentOutOfRangeException

Namespace: http://schemas.datacontract.org/2004/07/System

The **ArgumentOutOfRangeException** error complex type contains information about a protocol-server-side error caused by an argument with a value outside the range of permissible values. This complex type **MUST** be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="ArgumentOutOfRangeException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ArgumentException"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.10 ArrayOfAccessControlEntryStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAccessControlEntryStruct** complex type is a list of complex types, each of which represents an access control entry. This complex type is defined as follows:

```
<xs:complexType name="ArrayOfAccessControlEntryStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
      nillable="true" type="tns:AccessControlEntryStruct"/>
  </xs:sequence>
</xs:complexType>
```

AccessControlEntryStruct: A complex type that represents an access control entry.

2.2.4.11 ArrayOfAssociationStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationStruct** complex type is a list of complex types, each of which represents an Association. This complex type is defined as follows:

```

<xs:complexType name="ArrayOfAssociationStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct" nillable="true"
type="tns:AssociationStruct"/>
  </xs:sequence>
</xs:complexType>

```

AssociationStruct: A complex type that represents an Association.

2.2.4.12 ArrayOfEntityStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfEntityStruct** complex type is a list of complex types, each of which represents an Entity. This complex type is defined as follows:

```

<xs:complexType name="ArrayOfEntityStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="tns:EntityStruct"/>
  </xs:sequence>
</xs:complexType>

```

EntityStruct: A complex type that represents an Entity.

2.2.4.13 ArrayOfLobSystemStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemStruct** complex type is a list of complex types, each of which represents an LobSystem. This complex type is defined as follows.

```

<xs:complexType name="ArrayOfLobSystemStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct" nillable="true"
type="tns:LobSystemStruct"/>
  </xs:sequence>
</xs:complexType>

```

LobSystemStruct: A complex type that represents an LobSystem.

2.2.4.14 ArrayOfLocalizedNameStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfLocalizedNameStruct** complex type is a list of complex types, each of which represents a localized name. This complex type is defined as follows.

```

<xs:complexType name="ArrayOfLocalizedNameStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="tns:LocalizedNameStruct"/>
  </xs:sequence>

```

```
</xs:complexType>
```

LocalizedNameStruct: A complex type that represents a localized name.

2.2.4.15 ArrayOfMethodInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfMethodInstanceStruct** complex type is a list of complex types, each of which represents a MethodInstance. This complex type is defined as follows.

```
<xs:complexType name="ArrayOfMethodInstanceStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
      nillable="true" type="tns:MethodInstanceStruct"/>
  </xs:sequence>
</xs:complexType>
```

MethodInstanceStruct: A complex type that represents a MethodInstance.

2.2.4.16 ArrayOfModelStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfModelStruct** complex type is a list of complex types, each of which represents a Model. This complex type is defined as follows.

```
<xs:complexType name="ArrayOfModelStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
      type="tns:ModelStruct"/>
  </xs:sequence>
</xs:complexType>
```

ModelStruct: A complex type that represents a Model.

2.2.4.17 ArrayOfPropertyStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfPropertyStruct** complex type is a list of complex types, each of which represents a Property. This complex type is defined as follows.

```
<xs:complexType name="ArrayOfPropertyStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct" nillable="true"
      type="tns:PropertyStruct"/>
  </xs:sequence>
</xs:complexType>
```

PropertyStruct: A complex type that represents a Property.

2.2.4.18 ArrayOfstring

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfString** complex type represents a list of **xs:string** as specified in [\[XMLSCHEMA2\]](#). This complex type is defined as follows.

```
<xs:complexType name="ArrayOfstring">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

string: An element in the list.

2.2.4.19 ArrayOfTypeDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfTypeDescriptorStruct** complex type is a list of complex types, each of which represents a TypeDescriptor. This complex type is defined as follows.

```
<xs:complexType name="ArrayOfTypeDescriptorStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="tns:TypeDescriptorStruct"/>
  </xs:sequence>
</xs:complexType>
```

TypeDescriptorStruct: A complex type that represents a TypeDescriptor.

2.2.4.20 ArrayOfunsignedInt

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfunsignedInt** complex type represents a list of unsigned **xs:unsignedInt** as specified in [\[XMLSCHEMA2\]](#). This complex type is defined as follows.

```
<xs:complexType name="ArrayOfunsignedInt">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>
```

unsignedInt: An element in the list.

2.2.4.21 AssociationGroupStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationGroupStruct** complex type contains information about an AssociationGroup. Each Association referenced by the AssociationReferences contained by the AssociationGroup is identified by the values in the same index of the following lists:

- associationEntityNames
- associationEntityNamespaces
- associationNames
- associationIds

```
<xs:complexType name="AssociationGroupStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:q14="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
          name="associationEntityNames" nillable="true" type="q14:ArrayOfstring"/>
        <xs:element
          xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
          name="associationEntityNamespaces" nillable="true" type="q15:ArrayOfstring"/>
        <xs:element
          xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
          name="associationIds" nillable="true" type="q16:ArrayOfunsignedInt"/>
        <xs:element
          xmlns:q17="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
          name="associationNames" nillable="true" type="q17:ArrayOfstring"/>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

associationEntityNames: A list containing the names of Entities that contain the Associations referenced by the AssociationReferences contained by the AssociationGroup. This element **MUST** be present. If the corresponding Entity is not active, the values in this list **MUST** have at least 1 and at most 255 **Unicode** characters. Otherwise, the values **MUST** be NULL.

associationEntityNamespaces: A list containing the namespaces of Entities that contain the Associations referenced by the AssociationReferences contained by the AssociationGroup. This element **MUST** be present. If the corresponding Entity is not active, the values in this list **MUST** have at least 1 and at most 255 Unicode characters. Otherwise, the values **MUST** be NULL.

associationIds: A list containing the MetadataObjectIds of the Associations referenced by the AssociationReferences contained by the AssociationGroup. This element **MUST** be present. If the Entity containing the corresponding Association is active, the values in this list **MUST** be in the range from "1" through "0x7fffffff". Otherwise, the values **MUST** be zero.

associationNames: A list of names of Associations referenced by the AssociationReferences contained by the AssociationGroup. This element **MUST** be present. If the Entity containing the corresponding Association is not active, the values in this list **MUST** have at least 1 and at most 255 Unicode characters. Otherwise, the values **MUST** be NULL.

entityId: The MetadataObjectId of the Entity that contains the AssociationGroup. This element **MUST** be present. The value of this element **MUST** be in the range from "1" through "0x7fffffff".

2.2.4.22 AssociationReferenceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationReferenceStruct** complex type contains information about an AssociationReference. This complex type is defined as follows.

```
<xs:complexType name="AssociationReferenceStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="_associationName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="associationGroupObjectVersion" type="xs:int"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isReverse" type="xs:boolean"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

_associationName: The name of the Association referenced by the AssociationReference. This element MUST be present. The name MUST have at least 1 and at most 255 Unicode characters.

_entityName: The name of the Entity containing the Association referenced by the AssociationReference. This element MUST be present. The name MUST have at least 1 and at most 255 Unicode characters.

_entityNamespace: The namespace of the Entity containing the Association referenced by the AssociationReference. This element MUST be present. The namespace MUST have at least 1 and at most 255 Unicode characters.

associationGroupId: The MetadataObjectId of the AssociationGroup that contains the AssociationReference. This element MUST be present. The value of this element MUST be in the range from one through 0x7fffffff.

associationGroupObjectVersion: The object version of the AssociationGroup. This element MUST be present.

associationId: The MetadataObjectId of the Association referenced by the AssociationReference. This element MUST be present. The value of this element MUST be in the range from one through 0x7fffffff.

id: The implementation-specific identifier of the AssociationReference. This element MUST be present.

isReverse: A value that specifies whether the source of the referenced Association is the destination of the containing AssociationGroup and the destination of the referenced Association is the source of the containing AssociationGroup. This element MUST be present. The following table describes possible values.

Value	Description
"false"	The sources of the referenced Association are the sources of the containing AssociationGroup and the destination of the referenced Association is the destination of the containing AssociationGroup.

Value	Description
"true"	The source of the referenced Association is the destination of the containing AssociationGroup and destination of the referenced Association is the source of the containing AssociationGroup. The referenced Association MUST have only one source.

partitionId: The **partition (1)** of the Association referenced by the AssociationReference. This element MUST be present.

2.2.4.23 AssociationStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationStruct** complex type MUST contain information about an Association. A namespace at any index of the **sourceEntityNamespaces** element of this complex type MUST be the namespace of the Entity whose name is at the same index of the **sourceEntityNames** element. This complex type is defined as follows.

```
<xs:complexType name="AssociationStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MethodInstanceStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationGroupId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="destinationEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="destinationEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element xmlns:q11="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNames" nillable="true" type="q11:ArrayOfstring"/>
        <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="sourceEntityNamespaces" nillable="true" type="q12:ArrayOfstring"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

associationGroupId: The MetadataObjectId of the AssociationGroup which the Association is referenced by. If the Association is referenced by an AssociationGroup, the value of this element MUST be the MetadataObjectId of the referencing AssociationGroup. Otherwise, the value of this element MUST be set to zero. The value of this element MUST be in the range from zero through 0x7fffffff. This element MUST be present.

destinationEntityName: The name of the Association destination of the Association. This element MUST be present. The value of this element MUST have at least 1 and at most 255 Unicode characters.

destinationEntityNamespace: The namespace of the Association destination of the Association. This element MUST be present. The value of this element MUST have at least 1 and at most 255 Unicode characters.

sourceEntityNames: The list of names of the Association sources of the Association. This element MUST be present. This list MUST contain at least one child element. Each name in this list of Association source names MUST have at least 1 and at most 255 Unicode characters.

sourceEntityNamespaces: The list of namespaces of the Association sources of the Association. This element MUST be present. This list MUST contain at least one child element. Each namespace in

this list of Association source namespaces MUST have at least 1 and at most 255 Unicode characters.

2.2.4.24 BdcException

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcException** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a **SOAP fault**, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="BdcException">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
      base="q1:Exception"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.25 BdcExceptionState

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcExceptionState** error complex type contains information about a protocol-server-side error encountered during implementation-specific operations or caused by a violation of constraints on the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="BdcExceptionState">
  <xs:sequence>
    <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true"
      type="xs:string"/>
    <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
      type="xs:string"/>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

InnerExceptionToStringed: The specific cause of the operation failure.

InnerExceptionTypeFullName: A name for the kind of violation that caused this fault. The client MUST ignore this value.

Message: A description of the violation.

ServerStackTrace: An implementation-specific representation of the location on the protocol server where the violation was detected.

2.2.4.26 ComplexValueStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ComplexValueStruct** complex type MUST contain information about the data types related to the element containing this complex type. This complex type is defined as follows:

```

<xs:complexType name="ComplexValueStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean"/>
    <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true" type="xs:anyType"/>
    <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName"
nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

needsTypeReflectionResolution: Carries protocol client implementation-specific semantics. This value MUST NOT carry any semantic significance for the protocol server.

wcfMarshallableValue: Carries protocol client implementation-specific semantics. This value MUST NOT carry any semantic significance for the protocol server.

wcfMarshallableValueAssemblyQualifiedTypeName: Carries protocol client implementation-specific semantics. The value MUST NOT carry any semantic significance for the protocol server.

wcfMarshallableValueTypeName: Carries protocol client implementation-specific semantics. This value MUST NOT carry any semantic significance for the protocol server.

2.2.4.27 ConcurrentModificationExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **ConcurrentModificationExceptionState** error complex type contains information about a protocol-server-side error caused by concurrent modification of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section [2.2.4](#). This complex type is defined as follows.

```

<xs:complexType name="ConcurrentModificationExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q3="Microsoft.SharePoint.BusinessData.SharePoint" base="q3:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

MetadataObjectId: The MetadataObjectId of the MetadataObject that was concurrently modified.

2.2.4.28 DataClassStruct

Namespace: Microsoft.SharePoint.BusinessData

The **DataClassStruct** complex type MUST contain information about a DataClass. This complex type is defined as follows.

```

<xs:complexType name="DataClassStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>

```

```

        <xs:element minOccurs="0" name="active" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string"/>
        <xs:element xmlns:q7="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="version" nillable="true" type="q7:Version"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

active: A bit that specifies whether the DataClass is active. The value of this element MUST be TRUE if the DataClass is active; otherwise it MUST be FALSE.

lobSystemId: The MetadataObjectId of the LobSystem that contains this DataClass.

modelId: This value MUST be ignored by the protocol client. This value MUST be ignored by the protocol server.

namespace: The namespace of the DataClass.

version: The version of the DataClass.

2.2.4.29 DefaultValueStruct

Namespace: Microsoft.SharePoint.BusinessData

The **DefaultValueStruct** complex type contains details of a DefaultValue of a TypeDescriptor. This complex type is defined as follows.

```

<xs:complexType name="DefaultValueStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:ComplexValueStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="methodInstanceId" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="methodName" nillable="true"
type="xs:string"/>
                <xs:element minOccurs="0" name="typeDescriptorId" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

methodInstanceId: MetadataObjectId of the MethodInstance with which the DefaultValue is associated. This element MUST be present, and the value of this element MUST NOT be NULL.

methodName: The name of the MethodInstance with the specified MetadataObjectId. This element MUST be present. The value of this element MUST have at least 1 and at most 255 Unicode characters.

typeDescriptorId: The MetadataObjectId of the TypeDescriptor with which the DefaultValue is associated. This element MUST be present, and the value of this element MUST NOT be NULL.

2.2.4.30 DuplicateMetadataObjectExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **DuplicateMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by duplication of a MetadataObject. This complex type MUST only be included as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="DuplicateMetadataObjectExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint" base="q1:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

DuplicateFieldName: The name of the attribute of the MetadataObject that was supposed to be unique, but was not.

DuplicateMetadataObjectName: The name of the duplicate MetadataObject.

2.2.4.31 EntityStruct

Namespace: Microsoft.SharePoint.BusinessData

The **EntityStruct** complex type contains information about an Entity. This complex type is defined as follows.

```
<xs:complexType name="EntityStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DataClassStruct">
      <xs:sequence>
        <xs:element
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" name="cacheUsage" type="q8:CacheUsage"/>
        <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="estimatedInstanceCount" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

cacheUsage: The [CacheUsage](#) of the Entity. This element MUST be present.

description: The description of the Entity. This element MUST be present.

estimatedInstanceCount: The estimated maximum number of instances of the Entity. The value of this element MUST be in the range from 1 through 0x7fffffff. This element MUST be present.

2.2.4.32 ExceededMetadataObjectLimitExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **ExceededMetadataObjectLimitExceptionState** error complex type contains information about a protocol-server-side error caused when a MetadataObject exceeds an implementation-specific limit to the number of MetadataObjects that it can contain or refer to. This complex type **MUST** only be included as part of a SOAP fault as section [2.2.4](#). This complex type is defined as follows:

```
<xs:complexType name="ExceededMetadataObjectLimitExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q5="Microsoft.BusinessData.SharePoint" base="q5:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="Limit" type="xs:int"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Limit: The numerical limit that was exceeded.

2.2.4.33 Exception

Namespace: <http://schemas.datacontract.org/2004/07/System>

The **Exception** error complex type contains information about a protocol-server-side error. This complex type **MUST** be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="Exception">
  <xs:sequence>
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"/>
  </xs:sequence>
  <xs:attribute ref="ser:FactoryType"/>
</xs:complexType>
```

ser:FactoryType:

2.2.4.34 FilterDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **FilterDescriptorStruct** complex type contains information about a FilterDescriptor. This complex type is defined as follows.

```
<xs:complexType name="FilterDescriptorStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"/>
        <xs:element
          xmlns:q18="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="filterType" type="q18:FilterType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```
</xs:complexType>
```

filterField: The **field (4)** operated on by the FilterDescriptor. This value MUST be a path as specified in [\[MS-BDCMFFS\]](#) section 2.1.5.5. This value is understood by the applications using the protocol client, and MUST NOT carry any significance for the protocol server.

filterType: The [FilterType](#) of a FilterDescriptor.

methodId: The MetadataObjectId of the Method that contains the FilterDescriptor.

2.2.4.35 IdentifierStruct

Namespace: Microsoft.SharePoint.BusinessData

The **IdentifierStruct** complex type contains information about an Identifier. This complex type is defined as follows.

```
<xs:complexType name="IdentifierStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

entityId: The MetadataObjectId of the Entity that contains the Identifier.

ordinalNumber: The sequence number for the Identifier among all Identifiers of an Entity.

typeName: The data type of the value corresponding to the Identifier. The value MUST be in the following table.

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from zero through 65,535.
System.UInt32	A number in the range from zero through 4,294,967,295.
System.UInt64	A number in the range from zero through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 1 A.D. to 11:59:59 PM, December 31, 9999 A.D., with a resolution of 100 nanoseconds.

Value	Description
System.TimeSpan	A duration in the range from negative 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 800 nanoseconds through positive 10,675,199 days, 2 hours, 48 minutes, 5 seconds, 477 milliseconds, 580 microseconds, 700 nanoseconds, with a resolution of 100 nanoseconds.
System.Single	A single-precision number in the range from -3.402823e38 to 3.402823e38.
System.Double	A double-precision number in the range from -1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN.
System.Decimal	A number in the range from -79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number in the range from zero through 255.
System.SByte	A number in the range from -128 through 127.
System.Guid	A GUID .
System.Boolean	A bit.

2.2.4.36 InvalidMetadataObjectExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **InvalidMetadataObjectExceptionState** error complex type contains information about a protocol-server-side error caused by invalid attributes of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="InvalidMetadataObjectExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q6="Microsoft.SharePoint.BusinessData.SharePoint" base="q6:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidFieldName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

InvalidFieldName: The name of the MetadataObject attribute that is invalid.

InvalidMetadataObjectId: The MetadataObjectId of the MetadataObject that has an invalid attribute.

InvalidMetadataObjectName: The name of the MetadataObject that has an invalid attribute.

2.2.4.37 InvalidMetadataPropertyExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **InvalidMetadataPropertyExceptionState** error complex type contains information about a protocol-server-side error caused by an invalid Property detected in the set of Properties of a MetadataObject. This complex type MUST only be included as part of a SOAP fault as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="InvalidMetadataPropertyExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q2="Microsoft.SharePoint.BusinessData.SharePoint" base="q2:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

InvalidPropertyName: The name of the Property that is invalid.

MetadataObjectName: The name of the MetadataObject that has an invalid Property.

2.2.4.38 InvalidOperationException

Namespace: http://schemas.datacontract.org/2004/07/System

The **InvalidOperationException** error complex contains information about a protocol-server-side error caused by an attempt to perform an operation that is invalid for the current state of the protocol server. This complex type MUST be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="InvalidOperationException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:SystemException"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.39 LobSystemInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **LobSystemInstanceStruct** complex type contains information about an LobSystemInstance. This complex type is defined as follows.

```
<xs:complexType name="LobSystemInstanceStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    </xs:complexContent>
  </xs:complexType>

```

lobSystemId: The MetadataObjectId of the LobSystem that contains this LobSystemInstance.

2.2.4.40 LobSystemStruct

Namespace: Microsoft.SharePoint.BusinessData

The **LobSystemStruct** complex type contains information about an LobSystem. This complex type is defined as follows.

```

<xs:complexType name="LobSystemStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="systemType" type="q9:SystemType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

systemType: The [SystemType \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) of the LobSystem.

2.2.4.41 LocalizedNameStruct

Namespace: Microsoft.SharePoint.BusinessData

The **LocalizedNameStruct** complex type contains information about a localized name. This complex type is defined as follows.

```

<xs:complexType name="LocalizedNameStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="lcid" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="vlu" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

lcid: The **language code identifier (LCID)** representing the locale of the localized name. This element **MUST** be present.

metadataObjectId: The MetadataObjectId of the MetadataObject that contains the localized name. This element **MUST** be present. The value of this element **MUST** be in the range from "1" through "0x7fffffff". [<3>](#)

settingId: The **Setting** that contains the localized name. This element **MUST** be present.

vlue: The localized name of the MetadataObject in the locale specified with **lcid** element. This element MUST be present.

2.2.4.42 MetadataException

Namespace: Microsoft.BusinessData.SharePoint

The **MetadataException** error complex type contains information about a protocol-server-side error caused by a syntactic or semantic violation of a MetadataModel constraint in the metadata store. This complex type MUST be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="MetadataException">
  <xs:sequence>
    <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean"/>
    <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

explicitMessage: Specifies if the error message is specific for the encountered problem or it is generic for the type of the problem encountered. If the error message is specific to the problem encountered, the value MUST be "TRUE"; otherwise it MUST be "FALSE".

innerExceptionToStringed: The detailed reason for the error.

innerExceptionTypeFullName: A name for the kind of violation that caused this fault. The protocol client MUST ignore this value.

message: A literal implementation-specific error message detailing the constraint violation.

metadataObjectTypeName: The type of MetadataObject being accessed when the error occurred.

serverStackTrace: The implementation-specific representation of the location on the protocol server where the error occurred.

2.2.4.43 MetadataObjectNotFoundExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **MetadataObjectNotFoundExceptionState** error complex type contains information about a protocol-server-side error caused when a requested MetadataObject is not found. This complex type MUST only be included as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```
<xs:complexType name="MetadataObjectNotFoundExceptionState">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint" base="q4:MetadataException">
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchCriteria" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

```

SearchCriteria: The implementation-specific plain text informative criterion used to search for the MetadataObject.

2.2.4.44 MetadataObjectStruct

Namespace: Microsoft.SharePoint.BusinessData

The **MetadataObjectStruct** complex type contains the attributes of the MetadataObject. This complex type is defined as follows.

```

<xs:complexType name="MetadataObjectStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="isCached" type="xs:boolean"/>
    <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="objectVersion" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>

```

id: The MetadataObjectId of the MetadataObject, if the MetadataObject already exists in the metadata store. Otherwise, this value MUST be "0". This element MUST be present. The value of this element MUST be in the range from "0" through "0x7ffffff".

isCached: Specifies the frequency of use of a MetadataObject by the protocol client. Protocol clients can use this element as a recommendation on whether to cache a MetadataObject in memory. Whether the client considers a MetadataObject to be frequently used or not is left to its determination and is outside the scope of this protocol. This element MUST be present. The value MUST be in the following table.

Value	Description
False	The MetadataObject is infrequently used.
True	The MetadataObject is frequently used.

name: The name of the MetadataObject. This element MUST be present. The value of this element MUST have at least 1 and at most 255 Unicode characters.

objectVersion: The object version of the MetadataObject. This element MUST be present.

partitionId: The partition (1) of the MetadataObject. This element MUST be present.

2.2.4.45 MethodInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **MethodInstanceStruct** complex type contains information about a MethodInstance. This complex type is defined as follows.

```

<xs:complexType name="MethodInstanceStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="isDefault" type="xs:boolean"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="methodInstanceType" type="q10:MethodInstanceType"/>
        <xs:element minOccurs="0" name="returnTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

isDefault: Specifies whether the MethodInstance is the default among the MethodInstances of the same type that are contained by the DataClass that contains this MethodInstance. This element **MUST** be present. The value **MUST** be in the following table.

Value	Description
False	The MethodInstance is not the default.
True	The MethodInstance is the default.

methodId: The MetadataObjectId of the Method that contains the MethodInstance. This element **MUST** be present.

methodInstanceType: The type of the MethodInstance. This element **MUST** be present. The value of this element **MUST NOT** be NULL. The value **MUST** be a [MethodInstanceType \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel).

returnTypeDescriptorId: The MetadataObjectId of the **ReturnPropertyDescriptor** of the MethodInstance. This element **MUST** be present.

2.2.4.46 MethodStruct

Namespace: Microsoft.SharePoint.BusinessData

The **MethodStruct** complex type contains information about a Method. This complex type is defined as follows:

```

<xs:complexType name="MethodStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="isStatic" type="xs:boolean"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

entityId: The MetadataObjectId of the Entity that contains the Method. This element MUST be present.

isStatic: Specifies whether the Method is associated with an **EntityInstance**. This element MUST be present. The value MUST be in the following table.

Value	Description
False	The Method operates in the context of a specific EntityInstance.
True	The Method operates out of the context of a specific EntityInstance.

lobName: The name of the line-of-business (LOB) system operation that is represented by this Method. This element MUST be present. The value of this element MUST NOT be NULL. An application that utilizes the protocol client MUST use this name when calling LOB system operations. For example, a LOB system operation named "GetCus_1" can be represented by a Method named "Get Customer". The **lobName** element of this Method needs to be set to "GetCus_1".

2.2.4.47 ModelStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ModelStruct** complex type contains information about a Model. This complex type is defined as follows.

```
<xs:complexType name="ModelStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.48 PackageFormatExceptionState

Namespace: Microsoft.SharePoint.BusinessData

The **PackageFormatExceptionState** error complex type contains information about a protocol-server-side error caused when specified XML does not conform to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] or the MetadataModel contained in the specified XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] has invalid configuration of MetadataObjects or their attributes. This complex type MUST only be included as part of a SOAP fault as specified in section 2.2.4. This complex type is defined as follows.

```
<xs:complexType name="PackageFormatExceptionState">
  <xs:sequence>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element xmlns:q20="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
      minOccurs="0" name="ParseErrors" nillable="true" type="q20:ArrayOfstring"/>
    <xs:element minOccurs="0" name="SerializedInnerSystemException" nillable="true"
      type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"/>
  </xs:sequence>
```

```
</xs:complexType>
```

Message: A description of the error.

ParseErrors: A list of error messages or informational messages about the specified XML.

SerializedInnerSystemException: An implementation-specific representation of additional information about the error.

ServerStackTrace: An implementation-specific representation of the location on the protocol server where the error occurred.

2.2.4.49 ParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ParameterStruct** complex type contains information about a Parameter. This complex type is defined as follows.

```
<xs:complexType name="ParameterStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element
          xmlns:q13="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
          minOccurs="0" name="direction" type="q13:DirectionType"/>
        <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte"/>
        <xs:element minOccurs="0" name="rootTypeDescriptorId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

direction: Specifies the direction of the Parameter.

methodId: Specifies the MetadataObjectId of Method that contains the Parameter.

ordinalNumber: An integer representing the index of the Parameter among all Parameters in the containing Method.

rootTypeDescriptorId: Specifies the MetadataObjectId of the **root TypeDescriptor** of the Parameter.

2.2.4.50 PropertyStruct

Namespace: Microsoft.SharePoint.BusinessData

The **PropertyStruct** complex type contains information about a Property. This complex type is defined as follows.

```
<xs:complexType name="PropertyStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ComplexValueStruct">
      <xs:sequence>
```



```

    <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

metadataObjectId: The MetadataObjectId of the Property.

name: The name of the Property. The value MUST be unique among the names of Properties in the specified Setting and the containing MetadataObject.

settingId: The Setting that contains the Property. The value MUST be NULL if the Setting is the default Setting. The value MUST NOT be NULL if the Setting is not the default Setting.

typeName: The implementation-specific name of the data type of the value of the Property.

2.2.4.51 ProxyGenerationResult

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime>

The **ProxyGenerationResult** complex type contains information about Business Logic Modules [<4>](#). This complex type is defined as follows.

```

<xs:complexType name="ProxyGenerationResult">
  <xs:sequence>
    <xs:element minOccurs="0" name="compiledBytes" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

compiledBytes: The base 64 encoded bytes that constitute the Business Logic Modules.

fingerprint: An implementation-specific identifier of the Business Logic Modules. If the bytes that constitute two Business Logic Modules are identical, their **fingerprint** values MUST also be identical.

sourceCode: The value of this element MUST be NULL. The protocol client and the protocol server MUST ignore this value.

2.2.4.52 SafetyNetStruct

Namespace: Microsoft.SharePoint.BusinessData

The **SafetyNetStruct** complex type represents a single throttle configuration setting that encapsulates configuration information to support implementation-specific time-and-space-limiting algorithms in the protocol client when running operations against a line-of-business (LOB) system. For example, an implementation of the protocol that reads MetadataModels and uses them to run operations against an LOB system could limit the number of concurrent operations against the LOB system, abort an operation after a certain amount of time has expired, or reject operations that read or write more than a specific quantity of data. This complex type is defined as follows.

```

<xs:complexType name="SafetyNetStruct">

```

```

<xs:sequence>
  <xs:element minOccurs="0" name="defaultLimit" type="xs:int"/>
  <xs:element minOccurs="0" name="enabled" type="xs:boolean"/>
  <xs:element minOccurs="0" name="maxLimit" type="xs:int"/>
  <xs:element minOccurs="0" name="proxyId" type="ser:guid"/>
  <xs:element
    xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
    minOccurs="0" name="throttleScope" type="q21:ThrottleScope"/>
  <xs:element
    xmlns:q22="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
    minOccurs="0" name="throttleType" type="q22:ThrottleType"/>
</xs:sequence>
</xs:complexType>

```

defaultLimit: The initial default value for the throttle configuration setting.

enabled: A bit that specifies whether this throttle configuration setting is enabled. If this value is set to TRUE, the throttle configuration setting is enabled, if the value is set to FALSE, the throttle configuration setting is disabled.

maxLimit: The maximum value permissible for this throttle configuration setting.

proxyId: An implementation-specific non-empty GUID used to group the set of throttle configuration settings so that multiple instances of protocol clients can use the same protocol server and have their implementation limited by differing amounts. For example, a search crawler crawling a LOB can be enabled to make more simultaneous calls and query larger quantities of data than a Web server used by interactive users against the same LOB.

An **empty GUID** designates a fallback throttle configuration setting. For a given combination of **ThrottleScope** (section [2.2.5.10](#)) and **ThrottleType** (section [2.2.5.11](#)), the fallback throttle configuration setting is used if a throttle configuration setting with the specified **ProxyId** is not available.

throttleScope: The ThrottleScope (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific>) of this throttle configuration setting.

throttleType: The ThrottleType (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific>) of this throttle configuration setting.

2.2.4.53 SystemException

Namespace: <http://schemas.datacontract.org/2004/07/System>

The **SystemException** error complex type contains information about a protocol-server-side error. This complex type **MUST** be included only as part of a SOAP fault, as specified in section [2.2.4](#). This complex type is defined as follows.

```

<xs:complexType name="SystemException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:Exception"/>
  </xs:complexContent>
</xs:complexType>

```

2.2.4.54 TypeDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **TypeDescriptorStruct** complex type contains information about a TypeDescriptor. This complex type is defined as follows.

```
<xs:complexType name="TypeDescriptorStruct">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:MetadataObjectStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="childrenContainRules" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsFilterDescriptor" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsIdentifier" type="xs:boolean"/>
        <xs:element minOccurs="0" name="containsReadOnly" type="xs:boolean"/>
        <xs:element minOccurs="0" name="filterDescriptorId" type="xs:unsignedInt"/>
        <xs:element
xmlns:q19="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="flags" type="q19:TypeDescriptorFlags"/>
        <xs:element minOccurs="0" name="identifierId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="identifierReferenceEntityNamespace" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="identifierReferenceName" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="parentTypeDescriptorId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="serializedRules" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

associationId: The MetadataObjectId of the Association referenced by the TypeDescriptor. If the TypeDescriptor references an Association contained by an active Entity, the value of this element MUST be the MetadataObjectId of the referenced Association. Otherwise, the value MUST be zero. The value of this element MUST be in the range from zero through 0x7fffffff. This element MUST be present.

associationReferenceEntityName: The name of the Entity that contains the Association referenced by the TypeDescriptor. If the TypeDescriptor references an Association of an Entity that is not active, the value MUST be the name of the Entity that contains the referenced Association. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

associationReferenceEntityNamespace: The namespace of the Entity that contains the Association referenced by the TypeDescriptor. If the TypeDescriptor references an Association of an Entity that is not active, the value MUST be the namespace of the Entity that contains the

referenced Association. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

associationReferenceName: The name of the Association referenced by the TypeDescriptor. If the TypeDescriptor references an Association of an Entity that is not active, the value MUST be the name of the referenced Association. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

childrenContainRules: Indicates whether any descendant of the TypeDescriptor has rules. The value MUST be set to TRUE if any descendant of the TypeDescriptor has rules. Otherwise, the value MUST be set to FALSE. This element MUST be present.

containsFilterDescriptor: Indicates whether the TypeDescriptor or any of its descendants has an associated FilterDescriptor. This value MUST be set to TRUE if the TypeDescriptor has an associated FilterDescriptor or any of its descendants has an associated FilterDescriptor. Otherwise, this value MUST be set to FALSE. This element MUST be present.

containsIdentifier: Indicates whether the TypeDescriptor or any of its descendants references an Identifier. This value MUST be set to TRUE if the TypeDescriptor references an Identifier or any of its descendants references an Identifier. Otherwise, the value MUST be set to FALSE. This element MUST be present.

containsReadOnly: Indicates whether the TypeDescriptor or any of its descendants has the "ReadOnly" flag set. This value MUST be set to TRUE if the TypeDescriptor is set to read-only or any of its descendants has the "ReadOnly" flag set. Otherwise, the value MUST be set to FALSE. This element MUST be present.

filterDescriptorId: The MetadataObjectId of the FilterDescriptor associated with the TypeDescriptor. If a FilterDescriptor is associated with the TypeDescriptor, the value MUST be the MetadataObjectId of the associated FilterDescriptor. Otherwise, the value of this element MUST be set to zero. The value of this element MUST be in the range from zero through 0x7fffffff. This element MUST be present.

flags: The [TypeDescriptorFlags \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) of the TypeDescriptor.

identifierId: The MetadataObjectId of the Identifier referenced by the TypeDescriptor. If the TypeDescriptor references an Identifier of an active Entity, the value MUST be the MetadataObjectId of the referenced Identifier. Otherwise, the value MUST be set to zero. The value of this element MUST be in the range from zero through 0x7fffffff. This element MUST be present.

identifierReferenceEntityName: The name of the Entity that contains the Identifier referenced by the TypeDescriptor. If the TypeDescriptor references an Identifier of an Entity that is not active, the value MUST be the name of the Entity that contains the referenced Identifier. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

identifierReferenceEntityNamespace: The namespace of the Entity that contains the Identifier referenced by the TypeDescriptor. If the TypeDescriptor references an Identifier of an Entity that is not active, the value MUST be the namespace of the Entity that contains the referenced Identifier. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

identifierReferenceName: The name of the Identifier that is referenced by the TypeDescriptor. If the TypeDescriptor references an Identifier of an Entity that is not active, the value MUST be the

name of the referenced Identifier. Otherwise, this element MUST NOT be present. If the value of this element is not NULL, it MUST have at least 1 and at most 255 Unicode characters.

lobName: The name of the data structure that is represented by the TypeDescriptor.

parameterId: The MetadataObjectId of the Parameter that contains the TypeDescriptor.

parentTypeDescriptorId: The MetadataObjectId of the parent TypeDescriptor that contains the TypeDescriptor. If the TypeDescriptor is a root TypeDescriptor, the value MUST be set to zero. Otherwise, the value MUST be the MetadataObjectId of the parent TypeDescriptor that contains the TypeDescriptor. The value of this element MUST be in the range from zero through 0x7fffffff. This element MUST be present.

serializedRules: Rules to apply to the values in the data structure corresponding to the TypeDescriptor. If there are no rules to be applied, the value MUST be NULL or the empty string (""). If there are rules to be applied, the value MUST be a rules structure. The following is the ABNF notation as specified in [\[RFC5234\]](#) for the rules structure.

```
rules = rule *( %x00 rule)

rule = convertRule / normalizeRule

convertRule = %x54 fromType HTAB toType CRLF Culture

normalizeRule = %x44 ( local / unspecified / UTC)

UTC = %x42

local = %x43

unspecified = %x44

fromType = AssemblyQualifiedName
toType = AssemblyQualifiedName
```

Culture: Implementation-specific^{<5>} name of the culture.

AssemblyQualifiedName: The name of the data type of the value qualified with the module that contains it. The format MUST be as follows.

```
AssemblyQualifiedName = TypeName %x2C LibraryIdentifier %x2C VersionProperty %x2C
CultureProperty %x2C PublicKeyTokenProperty
```

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** MUST be as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

TypeName: The name of the data type of the value^{<6>}. The format is as specified in [\[MS-NRTP\]](#) section 2.2.1.2.

The rules MUST be stored with their order of execution from left to right, where the leftmost rule is executed first. Occurrence of a **convertRule** element indicates that the protocol client MUST interpret this rule as a cast between **fromType** and **toType**. Occurrence of a **normalizeRule** element indicates that the protocol client MUST interpret this rule as converting the time zone of a time value to **Coordinated Universal Time (UTC)** from the time zone specified. The specified time zone values are indicated by values "UTC", "local", and "unspecified", which correspond to **UTC** time zone, local time zone, and UTC time zone without time zone information, respectively.

typeName: The implementation-specific identifier for the data type of the data structure that the TypeDescriptor represents. The value of this element MUST have at least 1 and at most 255 Unicode characters. The value of this element is mapped to a data type by the implementation-specific module associated with the Parameter that contains this TypeDescriptor. The module that can perform the mapping MUST be specified as follows:

- If the Parameter that contains this TypeDescriptor contains a Property with name "TypeReflectorTypeName" and type "System.String", the module specified by the identifier represented by the string Property value MUST be used. The identifier MUST be the **AssemblyQualifiedName** in the following format described with ABNF notation as specified in [\[RFC5234\]](#):

```
AssemblyQualifiedName = TypeName %x2C LibraryIdentifier %x2C VersionProperty %x2C
CultureProperty %x2C PublicKeyTokenProperty
```

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

TypeName: The name of the data type of the value [<7>](#). The format is as specified in [\[MS-NRTP\]](#) section 2.2.1.2.

If the previous condition is not met, and if the LobSystem that contains the DataClass containing the Method of the Parameter that contains this TypeDescriptor has type specified as "Custom", and if the module associated with the LobSystem for the purposes of communicating with the corresponding LOB system, which is identified by the value of the LobSystem contained Property with name "SystemUtilityTypeName" and type "System.String", specifies a module for the purpose of mapping value of **typeName** element to a data type, the specified module MUST be used.

If the previous conditions are not met, an implementation-specific [<8>](#) module MUST be used.

2.2.4.55 Version

Namespace: <http://schemas.datacontract.org/2004/07/System>

The **Version** complex type MUST contain information about the version of a DataClass. This complex type is defined as follows.

```
<xs:complexType name="Version">
  <xs:sequence>
    <xs:element name="_Build" type="xs:int"/>
    <xs:element name="_Major" type="xs:int"/>
    <xs:element name="_Minor" type="xs:int"/>
    <xs:element name="_Revision" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

_Build: The third significant part of the version. This value MUST be non-negative.

_Major: The most significant part of the version. The value MUST be non-negative.

_Minor: The second significant part of the version. The value MUST be non-negative.

_Revision: The fourth and least significant part of the version. The value MUST be non-negative.

2.2.5 Simple Types

The following table summarizes the set of common XML Schema simple type definitions defined by this specification. XML Schema simple type definitions that are specific to a particular operation are described with the operation.

Simple type	Description
CacheUsage	Specifies how the protocol client accesses EntityInstance data to perform create, read, update, and delete operations when this information is not provided explicitly by means beyond this protocol specification.
char	Represents a Unicode character.
DirectionType	Specifies the direction of an argument represented by a Parameter for a line-of-business (LOB) system operation.
duration	Represents a duration.
FilterType	Specifies the type of the filter represented by the FilterDescriptor.
guid	Represents a GUID.
MethodInstanceType	Contains information about the type of a MethodInstance.
PackageContents	Specifies a subset of the types of the data contained by a MetadataModel.
SystemType	Specifies the type of LOB system that a LobSystem is representing.
ThrottleScope	Specifies the kind of SystemType to which a throttle configuration setting is applied.
ThrottleType	Specifies the type of the throttle configuration setting that is used to restrict operations performed on the LOB system.
TypeDescriptorFlags	Contains information about the characteristics of the data stored in a data structure represented by a TypeDescriptor.

The following table summarizes the set of common XML Schema simple type definitions defined by this specification. XML Schema simple type definitions that are specific to a particular operation are described with the operation.

Simple Type	Description
CacheUsage	The CacheUsage simple type specifies how the protocol client accesses EntityInstance data to perform create, read, update, and delete operations when this information is not provided explicitly by means that are beyond the scope of this protocol. If the protocol client does not have the capability to cache EntityInstance data, the protocol client MUST ignore this value. This simple type is defined as follows.
char	The char simple type represents a Unicode character. This simple type is defined as follows.
DirectionType	The DirectionType simple type specifies the direction of an argument represented by a Parameter for a line-of-business (LOB) system operation. This simple type is defined as follows.
duration	The duration simple type represents a duration. This simple type is defined as

Simple Type	Description
	follows.
FilterType	The FilterType simple type specifies the type of the filter represented by the FilterDescriptor. This simple type is defined as follows.
guid	The guid simple type represents a GUID. This simple type is defined as follows.
MethodInstanceType	The MethodInstanceType simple type contains information about the type of a MethodInstance. This simple type is defined as follows.
PackageContents	The PackageContents simple type specifies a subset of the types of data contained by a MetadataModel. This simple type is defined as follows.
SystemType	The SystemType simple type specifies the type of line-of-business (LOB) system that a LobSystem is representing. This simple type is defined as follows.
ThrottleScope	The ThrottleScope simple type specifies the type of LobSystem to which a throttle configuration setting is applied. This simple type is defined as follows.
ThrottleType	The ThrottleType simple type specifies the type of the throttle configuration setting that is used to restrict operations performed on the line-of-business (LOB) system. This simple type is defined as follows.
TypeDescriptorFlags	The TypeDescriptorFlags simple type contains information about the characteristics of the data stored in a data structure represented by a TypeDescriptor. This simple type is defined as follows.

2.2.5.1 CacheUsage

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime

The **CacheUsage** simple type specifies how the protocol client accesses EntityInstance data to perform create, read, update, and delete operations when this information is not provided explicitly by means that are beyond the scope of this protocol. If the protocol client does not have the capability to cache EntityInstance data, the protocol client MUST ignore this value. This simple type is defined as follows.

```
<xs:simpleType name="CacheUsage">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Default"/>
    <xs:enumeration value="Online"/>
    <xs:enumeration value="Cached"/>
    <xs:enumeration value="Offline"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for CacheUsage:

Value	Meaning
Default	The protocol client MUST make an implementation-specific choice to use any one of the other behaviors listed in this table, based on its capabilities.
Online	The protocol client MUST bypass the EntityInstance data cache for all operations.

Value	Meaning
Cached	The protocol client MUST use the EntityInstance data cache to perform create, update, and delete operations. If the requested data is available in the EntityInstance data cache, the protocol client MUST use the data in the cache. Otherwise, the protocol client MUST bypass the EntityInstance data cache to obtain the data and put the data in the EntityInstance data cache for later use.
Offline	The protocol client MUST use the EntityInstance data cache to perform create, read, update, and delete operations.

2.2.5.2 char

Namespace: <http://schemas.microsoft.com/2003/10/Serialization/>

The **char** simple type represents a Unicode character. This simple type is defined as follows.

```
<xs:simpleType name="char">
  <xs:restriction base="xs:int"/>
</xs:simpleType>
```

2.2.5.3 DirectionType

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel>

The **DirectionType** simple type specifies the direction of an argument represented by a Parameter for a line-of-business (LOB) system operation. This simple type is defined as follows.

```
<xs:simpleType name="DirectionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="In"/>
    <xs:enumeration value="Out"/>
    <xs:enumeration value="InOut"/>
    <xs:enumeration value="Return"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for DirectionType:

Value	Meaning
In	This argument is used to send data to the operation before the operation is executed.
Out	This argument is used to retrieve data from the operation after the operation is finished.
InOut	This argument is used to send data to the operation before the operation is executed and also to retrieve data from the operation after completion.
Return	This argument is the result of the operation.

2.2.5.4 duration

Namespace: <http://schemas.microsoft.com/2003/10/Serialization/>

The **duration** simple type represents a duration. This simple type is defined as follows.

```

<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>

```

2.2.5.5 FilterType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel

The **FilterType** simple type specifies the type of the filter represented by the FilterDescriptor. This simple type is defined as follows.

```

<xs:simpleType name="FilterType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Comparison" />
    <xs:enumeration value="LastId" />
    <xs:enumeration value="Limit" />
    <xs:enumeration value="PageNumber" />
    <xs:enumeration value="Password" />
    <xs:enumeration value="SsoTicket" />
    <xs:enumeration value="Timestamp" />
    <xs:enumeration value="UserContext" />
    <xs:enumeration value="Username" />
    <xs:enumeration value="UserProfile" />
    <xs:enumeration value="Wildcard" />
    <xs:enumeration value="Input" />
    <xs:enumeration value="Output" />
    <xs:enumeration value="InputOutput" />
    <xs:enumeration value="Batching" />
    <xs:enumeration value="BatchingTermination" />
    <xs:enumeration value="UserCulture" />
    <xs:enumeration value="ActivityId" />
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for FilterType:

Value	Meaning
Comparison	Indicates that the protocol client MUST interpret the FilterDescriptor as a ComparisonFilter .
LastId	Indicates that the protocol client MUST interpret the FilterDescriptor as a LastIdFilter .
Limit	Indicates that the protocol client MUST interpret the FilterDescriptor as a LimitFilter .
PageNumber	Indicates that the protocol client MUST interpret the FilterDescriptor as a PageNumberFilter .
Password	Indicates that the protocol client MUST interpret the FilterDescriptor as a PasswordCredentialFilter .

Value	Meaning
SsoTicket	Indicates that the protocol client MUST interpret the FilterDescriptor as a SsoTicketFilter .
Timestamp	Indicates that the protocol client MUST interpret the FilterDescriptor as a TimeStampFilter .
UserContext	Indicates that the protocol client MUST interpret the FilterDescriptor as a UserContextFilter .
Username	Indicates that the protocol client MUST interpret the FilterDescriptor as a UsernameCredentialFilter .
UserProfile	Indicates that the protocol client MUST interpret the FilterDescriptor as a UserProfileFilter .
Wildcard	Indicates that the protocol client MUST interpret the FilterDescriptor as a WildcardFilter .
Input	Indicates that the protocol client MUST interpret the FilterDescriptor as an InputFilter .
Output	Indicates that the protocol client MUST interpret the FilterDescriptor as an OutputFilter .
InputOutput	Indicates that the protocol client MUST interpret the FilterDescriptor as an InputOutputFilter .
Batching	Indicates that the protocol client MUST interpret the FilterDescriptor as a BatchingPositionFilter .
BatchingTermination	Indicates that the protocol client MUST interpret the FilterDescriptor as a BatchingTerminationFilter .
UserCulture	Indicates that the protocol client MUST interpret the FilterDescriptor as a UserCultureFilter .
ActivityId	Indicates that the protocol client MUST interpret the FilterDescriptor as an ActivityTrackingFilter .

2.2.5.6 guid

Namespace: <http://schemas.microsoft.com/2003/10/Serialization/>

The **guid** simple type represents a GUID. This simple type is defined as follows.

```
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="\da-fA-F}{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.5.7 MethodInstanceType

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel>

The `MethodInstanceType` simple type contains information about the type of a `MethodInstance`. This simple type is defined as follows.

```
<xs:simpleType name="MethodInstanceType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Finder"/>
    <xs:enumeration value="SpecificFinder"/>
    <xs:enumeration value="GenericInvoker"/>
    <xs:enumeration value="IdEnumerator"/>
    <xs:enumeration value="Scalar"/>
    <xs:enumeration value="AccessChecker"/>
    <xs:enumeration value="Creator"/>
    <xs:enumeration value="Updater"/>
    <xs:enumeration value="Deleter"/>
    <xs:enumeration value="ChangedIdEnumerator"/>
    <xs:enumeration value="DeletedIdEnumerator"/>
    <xs:enumeration value="AssociationNavigator"/>
    <xs:enumeration value="Associator"/>
    <xs:enumeration value="Disassociator"/>
    <xs:enumeration value="StreamAccessor"/>
    <xs:enumeration value="BinarySecurityDescriptorAccessor"/>
    <xs:enumeration value="BulkSpecificFinder"/>
    <xs:enumeration value="BulkAssociatedIdEnumerator"/>
    <xs:enumeration value="BulkAssociationNavigator"/>
    <xs:enumeration value="BulkIdEnumerator"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for `MethodInstanceType`:

Value	Meaning
Finder	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as a Finder .
SpecificFinder	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as a SpecificFinder .
GenericInvoker	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as a GenericInvoker .
IdEnumerator	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as an IdEnumerator .
Scalar	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as a Scalar .
AccessChecker	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as an AccessChecker .
Creator	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as a Creator .
Updater	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as an Updater .
Deleter	Indicates that the protocol client MUST interpret the <code>MethodInstance</code> as a Deleter .

Value	Meaning
ChangedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a ChangedIdEnumerator .
DeletedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a DeletedIdEnumerator .
AssociationNavigator	Indicates that the protocol client MUST interpret the MethodInstance as an AssociationNavigator .
Associator	Indicates that the protocol client MUST interpret the MethodInstance as an Associator .
Disassociator	Indicates that the protocol client MUST interpret the MethodInstance as a Disassociator .
StreamAccessor	Indicates that the protocol client MUST interpret the MethodInstance as a StreamAccessor .
BinarySecurityDescriptorAccessor	Indicates that the protocol client MUST interpret the MethodInstance as a BinarySecurityDescriptorAccessor .
BulkSpecificFinder	Indicates that the protocol client MUST interpret the MethodInstance as a BulkSpecificFinder .
BulkAssociatedIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a BulkAssociatedIdEnumerator .
BulkAssociationNavigator	Indicates that the protocol client MUST interpret the MethodInstance as a BulkAssociationNavigator .
BulkIdEnumerator	Indicates that the protocol client MUST interpret the MethodInstance as a BulkIdEnumerator .

2.2.5.8 PackageContents

Namespace: Microsoft.SharePoint.BusinessData

The **PackageContents** simple type specifies a subset of the types of data contained by a MetadataModel. This simple type is defined as follows.

```
<xs:simpleType name="PackageContents">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Model"/>
        <xs:enumeration value="LocalizedNames"/>
        <xs:enumeration value="Permissions"/>
        <xs:enumeration value="Properties"/>
        <xs:enumeration value="InlineProxies"/>
        <xs:enumeration value="All"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for PackageContents:

Value	Meaning
None	No data. This value is a composite that indicates that Model, LocalizedNames, Permissions, Properties, and InlineProxies were not specified.
Model	The MetadataObjects contained by the MetadataModel.
LocalizedNames	The localized names corresponding to the MetadataObjects contained by the MetadataModel.
Permissions	The access control entries corresponding to the MetadataObjects contained by the MetadataModel.
Properties	The Properties corresponding to the MetadataObjects contained by the MetadataModel.
InlineProxies	The Business Logic Modules associated with the LobSystems contained by the MetadataModel.
All	The MetadataObjects contained by the MetadataModel, along with their localized names, Properties, and access control entries, in addition to the Business Logic Modules associated with the LobSystems contained by the MetadataModel. This value is a composite that indicates that Model, LocalizedNames, Permissions, Properties, and InlineProxies were all specified.

2.2.5.9 SystemType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel

The **SystemType** simple type specifies the type of line-of-business (LOB) system that a LobSystem is representing. This simple type is defined as follows.

```
<xs:simpleType name="SystemType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Database"/>
    <xs:enumeration value="WebService"/>
    <xs:enumeration value="Custom"/>
    <xs:enumeration value="Wcf"/>
    <xs:enumeration value="DotNetAssembly"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for SystemType:

Value	Meaning
Database	The represented line-of-business (LOB) system is a database.
WebService	The represented line-of-business (LOB) system is a Web service .
Custom	The represented line-of-business (LOB) system has business logic external to the protocol implementation that manages the connection and data transfer.
Wcf	The represented line-of-business (LOB) system is a service for which the endpoint (4) URI, the binding, and the contract are specified.

Value	Meaning
DotNetAssembly	The represented line-of-business (LOB) system is a Business Logic Module. <9>

2.2.5.10 ThrottleScope

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific>

The **ThrottleScope** simple type specifies the type of LobSystem to which a throttle configuration setting is applied. This simple type is defined as follows.

```
<xs:simpleType name="ThrottleScope">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Global"/>
    <xs:enumeration value="Database"/>
    <xs:enumeration value="WebService"/>
    <xs:enumeration value="Wcf"/>
    <xs:enumeration value="Custom"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for ThrottleScope:

Value	Meaning
Global	This setting is used globally, independent of the type of the LobSystem.
Database	This setting is used for LobSystems that have a SystemType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) value of "Database".
WebService	This setting is used for LobSystems that have a SystemType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) value of "WebService".
Wcf	The setting is used for LobSystems that have a SystemType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) value of "Wcf".
Custom	This setting is used for LobSystems that have a SystemType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) value of "Custom".

2.2.5.11 ThrottleType

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific>

The **ThrottleType** simple type specifies the type of the throttle configuration setting that is used to restrict operations performed on the line-of-business (LOB) system. This simple type is defined as follows.

```
<xs:simpleType name="ThrottleType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Items"/>
    <xs:enumeration value="Size"/>
  </xs:restriction>
</xs:simpleType>
```

```

        <xs:enumeration value="Connections"/>
        <xs:enumeration value="Timeout"/>
    </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for ThrottleType:

Value	Meaning
None	This throttle configuration setting is not used in any operations. The protocol client MUST ignore throttle configuration settings that have the ThrottleType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific) attribute set to "None".
Items	This throttle configuration setting is used to restrict the number of items retrieved from the LOB system.
Size	This throttle configuration setting is used to restrict the number of bytes of the data retrieved from the LOB system.
Connections	This throttle configuration setting is used to restrict the number of simultaneous connections opened to the LOB system.
Timeout	This throttle configuration setting is used to restrict the duration of a connection opened to the LOB system.

2.2.5.12 TypeDescriptorFlags

Namespace: <http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel>

The **TypeDescriptorFlags** simple type contains information about the characteristics of the data stored in a data structure represented by a TypeDescriptor. This simple type is defined as follows.

```

<xs:simpleType name="TypeDescriptorFlags">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="CreatorField"/>
        <xs:enumeration value="UpdaterField"/>
        <xs:enumeration value="PreUpdaterField"/>
        <xs:enumeration value="IsCollection"/>
        <xs:enumeration value="ReadOnly"/>
        <xs:enumeration value="Significant"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>

```

The following table specifies the allowable values for TypeDescriptorFlags:

Value	Meaning
None	No flags exist.

Value	Meaning
CreatorField	This TypeDescriptor MUST be considered a field (4) for calling a Creator.
UpdaterField	This TypeDescriptor MUST be considered a field (4) for calling an Updater.
PreUpdaterField	This TypeDescriptor MUST be used to send the latest value received from the line-of-business (LOB) system corresponding to the field (4) with the same name as this TypeDescriptor when calling an Updater.
IsCollection	This TypeDescriptor MUST be interpreted as a collection of data structures.
ReadOnly	The protocol client MUST prevent values in the data structures corresponding to this TypeDescriptor from being modified.
Significant	The protocol client MUST use the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison. When this flag is not set, the protocol client MUST ignore the values in the data structures corresponding to this TypeDescriptor when comparing values between structures or creating hash codes for comparison.

2.2.6 Attributes

This specification does not define any common XML Schema attribute definitions.

2.2.7 Groups

This specification does not define any common XML Schema group definitions.

2.2.8 Attribute Groups

This specification does not define any common XML Schema attribute group definitions.

3 Protocol Details

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **present**, and **not null**.

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret HTTP status codes returned by the protocol server as specified in [\[RFC2616\]](#), section 10, Status Code Definitions.

This protocol enables protocol servers to notify protocol clients of application-level faults by using SOAP faults. Except where specified, these SOAP faults are not significant for interoperability, and protocol clients can interpret them in an implementation-specific manner.

This protocol enables protocol servers to perform implementation-specific authorization checks and notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults as specified previously in this section.

3.1 Server Details

All operations consist of a basic request-response pair, and the server treats each request as an independent transaction that is unrelated to any previous request.

In any operation request, the protocol client MAY [<10>](#) request that the protocol server perform additional security checks by including a **SOAP header** with Name "CameThroughRemoteAdminService", Namespace "Bdc", type "Bool", and value "True". The effect of including this header on server behavior is described for each operation in the following sections.

In any operation request, the protocol client MAY [<11>](#) request that the protocol server acknowledge the security principal (1) in whose context it is operating as a privileged user by including a SOAP header with Name "IsTenantAdmin", Namespace "Bdc", type "Bool", and value "True". The protocol server MUST fulfill the request acting as though the privileged user were authorized to edit or set permissions on any MetadataObject required by the operation.

3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

For this protocol, the protocol server maintains lists to store the attributes of each of the following data types:

- **AccessControlEntry**
- **Action**

- **ActionParameter**
- **Association**
- **AssociationGroup**
- **AssociationReference**
- **CacheVersionStamp**
- **DataClass**
- **DefaultValue**
- **Entity**
- **FilterDescriptor**
- **LobSystem**
- **LobSystemInstance**
- **LocalizedName**
- **MetadataObject**
- **Method**
- **MethodInstance**
- **Model**
- **Parameter**
- **Property**
- **ThrottleConfigurationSetting**
- **TypeDescriptor**

The implementations of the basic **Create**, **Read**, **Update**, and **Delete** stored procedures insert, read, update, or delete items in each of these lists in which the **MetadataObjectId** serves as the primary identifier.

The containment and reference relationships can be captured through additional lists that store the primary identifiers of the related data types.

The attributes and relationships of the data types are in the following descriptions.

Property

- Represents a Property.
- Has the following attributes: **MetadataObjectId**, **Name**, **SettingId**, and **TypeName**.
- No containment or referential relationships.

LocalizedName

- Represents a localized name.

- Has the following attributes: **Lcid**, **MetadataObjectId**, **SettingId**, and **Value**.
- No containment or referential relationships.

AccessControlEntry

- Represents an access control entry.
- Has the following attributes: **PrincipalBinaryForm**, **PrincipalDisplayName**, **PrincipalName**, and **Rights**.
- No containment or referential relationships.

MetadataObject

- Represents a MetadataObject.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, and **PartitionId**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.

Model

- Represents a Model.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, and **PartitionId**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.
- References zero or more DataClasses and zero or more Entities.

LobSystem

- Represents a LobSystem.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, and **SystemType**.
- Contains zero or more Properties, zero or more localized names, zero or more access control entries, zero or more DataClasses, zero or more Entities, zero or more LobSystemInstances, and zero or more Business Logic Modules.

LobSystemInstance

- Represents a LobSystemInstance.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, and **LobSystemId**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.
- Contained by exactly one LobSystem.

DataClass

- Represents a DataClass.

- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **Active**, **LobSystemId**, **ModelId**, and **Namespace**.
- Contains zero or more Properties, zero or more localized names, zero or more access control entries, zero or more Methods, and zero or more MethodInstances.
- Contained by exactly one LobSystem.
- At most one DataClass or Entity is active across all DataClasses and Entities that have the same name and namespace.

Entity

- Represents an Entity.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **Active**, **LobSystemId**, **ModelId**, **Namespace**, **CacheUsage**, **Description**, and **EstimatedInstanceCount**.
- Contains zero or more Properties, zero or more localized names, zero or more access control entries, zero or more Methods, zero or more MethodInstances, zero or more Identifiers, zero or more Actions, and zero or more AssociationGroups.
- Contained by exactly one LobSystem.
- References an Action as its default Action.
- At most one DataClass or Entity is active across all DataClasses and Entities that have the same name and namespace.

Identifier

- Represents an Identifier.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **EntityId**, **OrdinalNumber**, and **TypeName**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.
- Contained by exactly one **Entity**.

Method

- Represents a Method.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **LobName**, **IsStatic**, and **EntityId**.
- Contains zero or more Properties, zero or more localized names, zero or more access control entries, zero or more FilterDescriptors, zero or more Parameters, zero or more MethodInstances, and zero or more Associations.
- Contained by either exactly one Entity or exactly one DataClass.

MethodInstance

- Represents a MethodInstance.

- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **MethodId**, **MethodInstanceType**, **ReturnTypeDescriptorId**, and **IsDefault**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.
- References zero or one TypeDescriptors.
- Contained by exactly one Method.
- Contained by either exactly one Entity or exactly one DataClass.
- If the MethodInstance has a ReturnTypeDescriptor, the MethodInstance references the TypeDescriptor that corresponds to the ReturnTypeDescriptor. Otherwise, the MethodInstance references no TypeDescriptors.
- The **Type** attribute is not set to "AssociationNavigator", "Associator", "Disassociator", "BulkAssociationNavigator", or "BulkAssociatedIdEnumerator".

Association

- Represents an Association.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **AssociationGroupId**, **DestinationEntityName**, **DestinationEntityNamespace**, **SourceEntityNames**, and **SourceEntityNamespaces**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.
- References zero or one TypeDescriptors.
- References two or more Entities.
- Contained by exactly one Method.
- Contained by either exactly one Entity or exactly one DataClass.
- If the Association has a ReturnTypeDescriptor, the Association references the TypeDescriptor that corresponds to the ReturnTypeDescriptor. Otherwise, the Association references no TypeDescriptors.
- References the Entity that corresponds to the destination of the Association.
- References the Entities that correspond to the sources of the Association.
- Does not reference an Entity if that Entity is not a source or destination for the Association.
- The **Type** attribute is set to "AssociationNavigator", "Associator", "Disassociator", "BulkAssociationNavigator", or "BulkAssociatedIdEnumerator".

Parameter

- Represents a Parameter.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **Direction**, **PartitionId**, **MethodId**, **OrdinalNumber**, and **RootTypeDescriptorId**.

- Contains zero or more Properties, zero or more localized names, zero or more access control entries, and zero or more TypeDescriptors.
- Contained by exactly one Method.
- If the Parameter contains one or more TypeDescriptors, exactly one TypeDescriptor is not contained by any other TypeDescriptor. The TypeDescriptor that is not contained by any other TypeDescriptor corresponds to the root TypeDescriptor of the Parameter.

TypeDescriptor

- Represents a TypeDescriptor.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **AssociationId**, **AssociationReferenceEntityName**, **AssociationReferenceName**, **ChildrenContainRules**, **ContainsFilterDescriptor**, **ContainsIdentifier**, **ContainsReadOnly**, **FilterDescriptorId**, **Flags**, **IdentifierId**, **IdentifierReferenceEntityName**, **IdentifierReferenceEntityNamespace**, **IdentifierReferenceName**, **LobName**, **ParameterId**, **ParentTypeDescriptorId**, **SerializedRules**, and **TypeName**.
- Contains zero or more Properties, zero or more localized names, zero or more access control entries, zero or more TypeDescriptors, and zero or more DefaultValues.
- References zero or one Identifiers, zero or one Associations, and zero or one FilterDescriptors.
- If the TypeDescriptor references a FilterDescriptor, that FilterDescriptor references the TypeDescriptor.
- Contained by exactly one Parameter and zero or one TypeDescriptor.

FilterDescriptor

- Represents a FilterDescriptor.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **FilterField**, **FilterType**, and **MethodId**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.
- Contained by exactly one Method.
- References one or more TypeDescriptors.
- If the FilterDescriptor references a TypeDescriptor, that TypeDescriptor references the FilterDescriptor.

DefaultValue

- Represents a DefaultValue.
- Has the following attributes: **NeedsTypeReflectionResolution**, **WcfMarshallableValue**, **WcfMarshallableValueAssemblyQualifiedName**, **WcfMarshallableValueTypeAssemblyQualifiedName**, **MethodInstanceId**, **MethodInstanceName**, and **TypeDescriptorId**.
- Contained by exactly one TypeDescriptor.

AssociationGroup

- Represents an AssociationGroup.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **AssociationEntityNames**, **AssociationEntityNamespaces**, **EntityId**, **AssociationIds**, and **AssociationNames**.
- Contains zero or more Properties, zero or more localized names, zero or more access control entries, and zero or more AssociationReferences.
- Contained by exactly one Entity.

AssociationReference

- Represents an AssociationReference.
- Has the following attributes: **_associationName**, **_entityName**, **_entityNamespace**, **AssociationGroupId**, **AssociationGroupObjectVersion**, **AssociationId**, **Id**, **IsReverse**, and **PartitionId**.
- References exactly one Association.
- Contained by exactly one AssociationGroup.

Action

- Represents an Action.
- Has the following attributes: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **EntityId**, **ImageUrl**, **IsOpenedInNewWindow**, **Position**, and **Url**.
- Contains zero or more Properties, zero or more localized names, zero or more access control entries, and zero or more ActionParameters.
- Contained by exactly one Entity.

ActionParameter

- Represents an ActionParameter.
- Has the following elements: **Id**, **Name**, **IsCached**, **ObjectVersion**, **PartitionId**, **ActionId**, and **Index**.
- Contains zero or more Properties, zero or more localized names, and zero or more access control entries.
- Contained by exactly one Action.

CacheVersionStamp

- Has the following attributes: **CacheLine**, **Counter**, **PartitionId**, and **Timestamp**.
- No containment or referential relationships.

ThrottleConfigurationSetting

- Has the following attributes: **DefaultLimit**, **Enabled**, **MaxLimit**, **ProxyId**, **ThrottleScope**, and **ThrottleType**.

- No containment or referential relationships.

The permissions that apply a given object are specified by the access control entries it contains. If the given object does not contain any access control entries, the permission that apply to the object that contains the given object are used instead. If the given object is not contained by any other objects, then the protocol server can assume implementation-specific set of security principals (1) have necessary permissions on the object.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The protocol client is associated with a metadata partition (1), referred to in the following sections as the protocol client metadata partition (1), by using an implementation-specific mechanism.

The definitions of some operations in this section make use of ABNF representation as specified in [\[RFC5234\]](#).

The specifications of the operations in this section identify the conditions under which the protocol server **MUST** respond with corresponding error complex types. In addition, if the protocol server encounters an error specific to its implementation, it **MAY** respond with any fault listed in the WSDL for its operation. The responses **MUST** be formatted as **SOAP faults**, by using error complex types serialized as specified in section [2.2.4](#). The error complex types are described in the following table.

Error complex type	Condition
ArgumentException	The protocol server encountered an invalid argument value while performing implementation-specific operations.
ArgumentNullException	While performing implementation-specific operations, the protocol server encountered a NULL value for an argument that does not accept NULL values.
ArgumentOutOfRangeException	The protocol server encountered an argument with a value outside the range of acceptable values while performing implementation-specific operations.
BdcExceptionState	The protocol server encountered an unrecoverable error while performing implementation-specific operations, or encountered a violation of constraints on the metadata store.
InvalidOperationException	The protocol server attempted an implementation-specific operation that is invalid for the current state of the protocol server.
MetadataException	The protocol server discovered a violation of a syntactic or semantic constraint on a MetadataModel while performing implementation-specific operations.
PackageFormatExceptionState	In an implementation-specific operation, the protocol server encountered XML that does not conform to the format specified in [MS-BDCMFFS] , or XML conforming to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] that

Error complex type	Condition
	has invalid configuration of MetadataObjects or their attributes.

For the following operations, the protocol client MAY [≤12>](#) specify values for a subset of the elements of the complex types that inherit from the **MethodInstanceStruct** complex type, including **MethodInstanceStruct** itself. The protocol server MUST NOT return a fault for this condition. Unless otherwise specified, the protocol client MUST specify the values of the **Id** and **PartitionId** elements of complex types when used as parameters in the following operations:

- [AddEntityToModel](#)
- [ClearLocalizedNames](#)
- [ClearProperties](#)
- [CopyAclAcrossChildren](#)
- [CopyAclToSetting](#)
- [DeleteNoCascade](#)
- [DeleteProxyAssemblyForLobSystem](#)
- [ExportPackage](#)
- [GetAccessControlEntries](#)
- [GetAllLocalizedNamesForMetadataObjectStruct](#)
- [GetAllPropertiesForMetadataObjectStruct](#)
- [GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor](#)
- [GetFieldTypeDescriptorsByMethodInstance](#)
- [GetLobSystemDataByLobSystem](#)
- [GetTypeReflectorTypeNameForParameter](#)
- [ImportPackage](#)
- [ImportPackageWithProgress](#)
- [MetadataObjectCreate](#)
- [MetadataObjectMergeXml](#)
- [MetadataObjectReadXml](#)
- [MetadataObjectWriteXml](#)
- [ModelReadXml](#)
- [ReadSlicedXml](#)
- [RemoveEntityFromModel](#)
- [RemoveLocalizedName](#)

- [RemoveProperty](#)
- [SaveLocalizedName](#)
- [SaveProperty](#)
- [SetAccessControlEntries](#)
- [SetDefaultActionForEntity](#)
- [TypeDescriptorCreate](#)
- [TypeDescriptorMergeXml](#)
- [TypeDescriptorReadXml](#)

For the operations specified in the following table, the protocol server **MUST** update the object versions of the corresponding MetadataObjects in the metadata store as follows:

- If the object version of the MetadataObject is 2147483646, the object version **MUST** be set to zero.
- Otherwise, the object version **MUST** be incremented by 1.

Operation	MetadataObjects
Activate	The Entity specified by the entityStruct element.
AddAssociationReferenceToAssociationGroup	The AssociationGroup specified by the associationGroupStruct element.
BulkSwitchActiveOrValidate	The Entities specified by the entityStructs element.
Deactivate	The Entity specified by the entityStruct element.
DeleteAssociationReferenceFromAssociationGroup	The AssociationGroup that contains the AssociationReference specified by the associationReferenceStruct element.
Update	The MetadataObject specified by the metadataObjectStruct element.

This specification includes the following **WSDL operations**:

WSDL Operation	Description
Activate	The Activate operation activates the specified Entity.
AddAssociationReferenceToAssociationGroup	The AddAssociationReferenceToAssociationGroup operation creates the specified AssociationReference in the specified AssociationGroup.
AddEntityToModel	The AddEntityToModel operation adds a reference to the specified Entity to the specified Model.
AddThrottlingRule	The AddThrottlingRule operation adds the specified throttle configuration setting to the metadata store.
BulkSwitchActiveOrValidate	The BulkSwitchActiveOrValidate operation changes

WSDL Operation	Description
	the active version of the specified set of Entities or validates the specified Entities for the purpose of changing the active versions and identifying related errors.
CheckPathInMethodInstances	The CheckPathInMerthodInstances operation retrieves whether the specified path, which conforms to [MS-BDCMFFS] section 2.1.5.5, corresponds to a TypeDescriptor in a View of the MethodInstances of the specified type contained by the specified DataClass, along with the MetadataObjectId of one such MethodInstance, if one exists.
ClearLocalizedNames	The ClearLocalizedNames operation removes all localized names of the specified MetadataObject from the specified Setting.
ClearProperties	The ClearProperties operation removes all Properties of the specified MetadataObject from the specified Setting.
CopyAclAcrossChildren	<p>The CopyAclAcrossChildren operation clears the access control entries of the descendent MetadataObjects of a specified MetadataObject and copies the access control entries of the specified MetadataObject to the descendent MetadataObjects. A given MetadataObject is a descendent of the specified MetadataObject if the MetadataObject that contains the given MetadataObject is also a descendent of the specified MetadataObject or the MetadataObject is contained by the specified MetadataObject.</p> <p>If the specified MetadataObject is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, the protocol server MUST NOT change the access control entries of any LobSystem and its descendent MetadataObjects if the security principal (1) in whose context the protocol client is operating is not authorized to edit the LobSystem.</p>
CopyAclAcrossChildrenForSetting	<p>The CopyAclAcrossChildrenForSetting operation clears the access control entries in a specified Setting on the descendent MetadataObjects of the specified MetadataObject and copies the access control entries in the specified Setting on the specified MetadataObject to the descendent MetadataObjects. A given MetadataObject is a descendent of the specified MetadataObject if the MetadataObject that contains the given MetadataObject is also a descendent of the specified MetadataObject or the MetadataObject is contained by the specified MetadataObject.</p> <p>If the specified MetadataObject is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, the protocol server MUST NOT change the access control entries of any LobSystem and its descendent MetadataObjects if the security principal (1) in whose context the protocol client is operating is not authorized</p>

WSDL Operation	Description
	to edit the LobSystem.
CopyAclToSetting	The CopyAclToSetting operation deletes the access control entries in the specified non-default Setting of the specified MetadataObject and copies the access control entries in the default Setting of the specified MetadataObject to the specified Setting of the specified MetadataObject.
Deactivate	The Deactivate operation sets an active version of an Entity to not active.
Delete	The Delete operation deletes the specified MetadataObject.
DeleteAssociationReferenceFromAssociationGroup	The DeleteAssociationReferenceFromAssociationGroup operation removes an AssociationReference from an AssociationGroup by deleting the AssociationReference.
DeleteDefaultValueForTypeDescriptor	The DeleteDefaultValueForTypeDescriptor operation deletes the DefaultValue of the specified TypeDescriptor for the specified MethodInstance.
DeleteNoCascade	The DeleteNoCascade operation deletes the specified MetadataObject without deleting the MetadataObjects it references.
DeleteProxyAssemblyForLobSystem	The DeleteProxyAssemblyForLobSystem operation deletes a Business Logic Module 13 associated with the specified LobSystem.
EntityCreate	The EntityCreate operation creates an Entity in the specified LobSystem. The operation MUST copy access control entries from the specified LobSystem to the created Entity. If a Model is specified, the operation MUST associate the created Entity with the specified Model. Otherwise, the created Entity is not referenced by any Model.
ExportPackage	<p>The ExportPackage operation retrieves an XML representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and access control entries, if "Model" value is set for the packageContents element. The XML MUST conform to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.1.4.1. Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the specified MetadataModel, if "Model" value is not set for the packageContents element. The XML MUST conform to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.2.4.1.

WSDL Operation	Description
	If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, and if the specified MetadataModel contains LobSystems that the security principal (1) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those LobSystems, and MUST NOT contain other MetadataObjects contained by MetadataObjects that are not contained in the result for this reason.
GenerateProxyAssemblyForLobSystem	The GenerateProxyAssemblyForLobSystem operation forces the protocol server to create an implementation-specific Business Logic Module<14> for the specified LobSystem to connect to the LOB system described by the specified LobSystem. If a Business Logic Module is already available for the specified LobSystem, this operation MUST NOT create another Business Logic Module and MUST complete successfully.
GetAccessControlEntries	The GetAccessControlEntries operation retrieves the access control entries for the specified MetadataObject from the specified Setting. If there are no access control entries for the specified MetadataObject from the specified Setting and the value of the fallback element is set to "TRUE", the protocol server MUST retrieve access control entries for the specified MetadataObject from the default Setting.
GetActionById	The GetActionById operation retrieves the specified Action.
GetActionParameterById	The GetActionParameterById operation retrieves the specified ActionParameter.
GetActionParametersForAction	The GetActionParametersForAction operation retrieves the ActionParameters of the specified Action.
GetActionsForEntity	The GetActionsForEntity operation retrieves the Actions of the specified Entity.
GetAllLocalizedNames	The GetAllLocalizedNames operation retrieves all localized names of the specified MetadataObject.
GetAllLocalizedNamesForMetadataObjectStruct	The GetAllLocalizedNamesForMetadataObjectStruct operation retrieves all localized names of the specified MetadataObject for the specified Setting.
GetAllPartitionIds	The GetAllPartitionIds operation retrieves all distinct partition (1) identifiers.
GetAllProperties	The GetAllProperties operation retrieves all Properties of the specified MetadataObject and the specified Setting.
GetAllPropertiesForMetadataObjectStruct	The GetAllPropertiesForMetadataObjectStruct operation retrieves all Properties of the specified MetadataObject from the specified Setting.
GetAssociationById	The GetAssociationById operation retrieves the

WSDL Operation	Description
	Association with the specified MetadataObjectId.
GetAssociationGroupById	The GetAssociationGroupById operation retrieves the AssociationGroup with the specified MetadataObjectId.
GetAssociationGroupsForEntity	The GetAssociationGroupsForEntity operation retrieves the AssociationGroups of the Entity with the specified MetadataObjectId.
GetAssociationMembersInRole	The GetAssociationMembersInRole operation retrieves the source or destination Entities of the specified Association.
GetAssociationReferencesForAssociationGroup	The GetAssociationReferencesForAssociationGroup operation retrieves the AssociationReferences contained by the specified AssociationGroup.
GetAssociationsForDataClass	The GetAssociationsForDataClass operation retrieves the Associations that are contained by the specified DataClass.
GetAssociationsForEntityAndRole	The GetAssociationsForEntityAndRole operation retrieves the Associations that reference the specified Entity as Association source or Association destination.
GetAssociationsForMethod	The GetAssociationsForMethod operation retrieves the Associations that are contained by the specified Method.
GetCacheInvalidationRecordsSince	The GetCacheInvalidationRecordsSince operation retrieves the cache version stamps that were modified after the specified time.
GetChildTypeDescriptorsForTypeDescriptor	The GetChildTypeDescriptorsForTypeDescriptor operation retrieves the TypeDescriptors contained by the specified TypeDescriptor.
GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor	The GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor operation retrieves the TypeDescriptors that reference Identifiers and are descendents of the specified TypeDescriptor. A TypeDescriptor is a descendent of the specified TypeDescriptor if the TypeDescriptor that contains the TypeDescriptor is also a descendent of the specified TypeDescriptor or the TypeDescriptor is contained by the specified TypeDescriptor. <15>
GetDataClassById	The GetDataClassById operation retrieves the DataClass with the specified MetadataObjectId.
GetDataClassesForSystem	The GetDataClassesForSystem operation retrieves DataClasses contained by the specified LobSystem.
GetDefaultValuesForTypeDescriptor	The GetDefaultValuesForTypeDescriptor operation retrieves the DefaultValues of the specified TypeDescriptor.
GetEntitiesForAssociationAndRole	The GetEntitiesForAssociationAndRole operation retrieves the Entities that perform the role of source or

WSDL Operation	Description
	destination for the specified Association.
GetEntitiesForSystem	The GetEntitiesForSystem operation retrieves Entities of the specified LobSystem.
GetEntitiesLikeNameAndNamespace	<p>The GetEntitiesLikeNameAndNamespace operation retrieves the Entities that match the specified wildcard patterns for name and namespace.</p> <p>An Entity matches the pattern specified by wildcardedName if, and only if, wildcardedName matches the name of the Entity, the localized name of the Entity with language code identifier (LCID) set to zero, or the localized name of the Entity with the LCID specified by callerCultureLcid.</p> <p>An Entity matches the pattern specified by wildcardedNamespace if, and only if, wildcardedNamespace matches the namespace of the Entity.</p>
GetEntitiesReferencedByModelId	The GetEntitiesReferencedByModelId operation retrieves Entities that are referenced by the specified Model.
GetEntityById	The GetEntityById operation retrieves the Entity with the specified MetadataObjectId.
GetEntityCount	The GetEntityCount operation retrieves the number of Entities that are contained by the specified LobSystem.
GetEntityNameAndNamespacesForAssociationAnd Role	The GetEntityNameAndNamespacesForAssociationAnd Role operation retrieves the names and namespaces of Entities that are referenced by the specified Association. Only Entities in the specified association role of source or destination are returned.
GetEntityWithNameAndNamespace	The GetEntityWithNameAndNamespace operation retrieves the active Entity with the specified name and namespace in the specified partition (1).
GetEntityWithNameAndNamespaceAndVersion	The GetEntityWithNameAndNamespaceAndVersion operation retrieves the Entity with the specified name, namespace, and version.
GetFieldTypeDescriptorsByMethodInstance	The GetFieldTypeDescriptorsByMethodInstance operation retrieves TypeDescriptors that correspond to fields (4) of the MethodInstance with the specified name in the specified Entity.
GetFilterDescriptorById	The GetFilterDescriptorById operation retrieves the FilterDescriptor with the specified MetadataObjectId.
GetFilterDescriptorsForMethod	The GetFilterDescriptorsForMethod operation retrieves the FilterDescriptors contained by the specified Method.
GetIdentifierById	The GetIdentifierById operation retrieves the Identifier with the specified MetadataObjectId.

WSDL Operation	Description
GetIdentifiersForEntity	The GetIdentifiersForEntity operation retrieves the Identifiers contained by the specified Entity.
GetImportProgress	The GetImportProgress operation retrieves the progress of an ImportPackageWithProgress operation, using the unique identifier provided by the client at the creation of the import operation.
GetLevelForTypeDescriptor	The GetLevelForTypeDescriptor operation retrieves the depth of the specified TypeDescriptor in the TypeDescriptor tree. The TypeDescriptor tree for a specified TypeDescriptor consists of the specified TypeDescriptor with depth zero. Any TypeDescriptor that is contained by a TypeDescriptor in the TypeDescriptor tree is also in the tree with depth 1, plus the depth of the containing TypeDescriptor.
GetLobSystemAllAssembliesBytes	The GetLobSystemAllAssembliesBytes operation retrieves the Business Logic Modules associated with the specified LobSystem if the systemType element of the specified LobSystem is not set to "Custom". If the systemType element of the specified LobSystem is set to "Custom", the behavior of this operation is implementation-specific ^{<16>} .
GetLobSystemById	The GetLobSystemById operation retrieves the LobSystem with the specified MetadataObjectId.
GetLobSystemByName	The GetLobSystemByName operation retrieves the specified LobSystem.
GetLobSystemDataByLobSystem	The GetLobSystemDataByLobSystem operation retrieves Business Logic Modules ^{<17>} associated with the specified LobSystem.
GetLobSystemInstanceById	The GetLobSystemInstanceById operation retrieves the LobSystemInstance with the specified MetadataObjectId.
GetLobSystemInstancesForLobSystem	The GetLobSystemInstancesForLobSystem operation retrieves the list of LobSystemInstances of the specified LobSystem. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the LobSystemInstances that the security principal (1) in whose context the protocol client is operating is authorized to read ^{<18>} that are also contained by the specified LobSystem are retrieved.
GetLobSystemProxyAssemblyBytesByLobSystemId	The GetLobSystemProxyAssemblyBytesByLobSystemId operation retrieves the implementation-specific Business Logic Module ^{<19>} associated with the specified LobSystem.
GetLobSystemsLikeName	The GetLobSystemsLikeName operation retrieves the LobSystems that match the specified wildcard pattern. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request,

WSDL Operation	Description
	<p>only the LobSystems that the security principal (1) in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.</p> <p>An LobSystem matches the wildcard pattern specified by searchLikeName if, and only if, searchLikeName matches the name of the LobSystem, the localized name of the LobSystem has its language code identifier (LCID) set to zero, or the localized name of the LobSystem has the LCID specified by callerCultureLcid.</p>
GetLobSystemsReferencedByEntitiesAssociatedWithModel	<p>The GetLobSystemsReferencedByEntitiesAssociatedWithModel operation retrieves the LobSystems referenced by Entities associated with the specified Model. If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, only the LobSystems that the security principal (1) in whose context the protocol client is operating is authorized to read 20 that are also referenced by Entities associated with the specified Model are retrieved.</p>
GetMethodById	The GetMethodById operation retrieves the Method with the specified MetadataObjectId.
GetMethodInstanceById	The GetMethodInstanceById operation retrieves the MethodInstance with the specified MetadataObjectId.
GetMethodInstancesForDataClass	The GetMethodInstancesForDataClass operation retrieves the MethodInstances contained by the Methods contained by the specified DataClass.
GetMethodInstancesForMethod	The GetMethodInstancesForMethod operation retrieves the MethodInstances contained by the specified Method.
GetMethodsForDataClass	The GetMethodsForDataClass operation retrieves the Methods contained by the specified DataClass.
GetModelById	The GetModelById operation retrieves the Model with the specified MetadataObjectId.
GetModelByName	The GetModelByName operation retrieves the specified Model.
GetModelsByEntityId	The GetModelsByEntityId operation retrieves the Models that reference the specified Entity.
GetModelsByName	<p>The GetModelsByName operation retrieves the Models that match the specified wildcard pattern.</p> <p>A Model matches the wildcard pattern specified by wildcardedName if, and only if, wildcardedName matches the name of the Model, the localized name of the Model has its LCID set to zero, or the localized name of the Model has the LCID specified by callerCultureLcid.</p>
GetParameterById	The GetParameterById operation retrieves the Parameter with the specified MetadataObjectId.

WSDL Operation	Description
GetParametersForMethod	The GetParametersForMethod operation retrieves the Parameters of the specified Method.
GetRootTypeDescriptorForParameter	The GetRootTypeDescriptorForParameter operation retrieves the root TypeDescriptor of the specified Parameter.
GetServiceApplicationId	The GetServiceApplicationId operation retrieves the unique implementation-specific identifier of a metadata store.
GetSystemUtilityTypeNameForLobSystem	The GetSystemUtilityTypeNameForLobSystem operation retrieves the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem.
GetThrottlingRules	The GetThrottlingRules operation retrieves all throttle configuration settings used by the protocol server.
GetTypeDescriptorById	The GetTypeDescriptorById operation retrieves the TypeDescriptor with the specified MetadataObjectId.
GetTypeDescriptorsByNameAndLevelForParameter	<p>The GetTypeDescriptorByNameAndLevelForParameter operation retrieves the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a TypeDescriptor is defined as follows:</p> <ul style="list-style-type: none"> ▪ The level of the root TypeDescriptor is set to zero ("0"). ▪ The level of the specified TypeDescriptor is 1 plus the level of the TypeDescriptor containing the specified TypeDescriptor.
GetTypeDescriptorsForFilterDescriptor	The GetTypeDescriptorsForFilterDescriptor operation retrieves TypeDescriptors referenced by the specified FilterDescriptor.
GetTypeReflectorTypeNameForParameter	The GetTypeReflectorTypeNameForParameter operation retrieves the implementation-specific name of the type of the TypeReflector of the specified Parameter.
GetXmlSchemaForView	The GetXmlSchemaForView operation is obsolete and MUST NOT be used.
HaveRights	The HaveRights operation retrieves whether the security principal (1) in whose context the protocol client is operating has the specified permission on the specified MetadataObject based on the permissions specified by the access control entries in the specified Setting associated with the specified MetadataObject.
ImportPackage	The ImportPackage operation creates the following objects in the metadata store:

WSDL Operation	Description
	<ul style="list-style-type: none"> MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and access control entries (ACEs), if the "Model" value is specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.1.4.1. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystemInstances contained by that LobSystem, along with Properties, localized names, and access control entries of the ignored MetadataObjects. If the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store, and if the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by the Entity or other ignored MetadataObjects, along with the Properties, localized names, and access control entries of the ignored MetadataObjects. Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the specified MetadataModel, if the "Model" value is not specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [MS-BDCMFFS] section 2.2.4.1.
ImportPackageWithProgress	<p>The ImportPackageWithProgress operation creates the following objects in the metadata store:</p> <ul style="list-style-type: none"> MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and access control entries (ACEs), if the "Model" value is specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format specified in [MS-BDCMFFS] section 2.1.4.1. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystemInstances contained by that LobSystem along with Properties, localized names, and access control entries of the ignored MetadataObjects. If the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store, and if the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by

WSDL Operation	Description
	<p>the Entity or other ignored MetadataObjects, along with the Properties, localized names, and access control entries of the ignored MetadataObjects.</p> <ul style="list-style-type: none"> Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the specified MetadataModel, if the "Model" value is not specified for the packageContents element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format specified in [MS-BDCMFFS] section 2.2.4.1. <p>The protocol server MUST track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the GetImportProgress operation with the specified identifier.</p>
IsMethodInstantiated	The IsMethodInstantiated operation checks whether the specified Method contains at least one MethodInstance.
IsParameterReferencedByMethodInstance	The IsParameterReferencedByMethodInstance operation checks whether the specified Parameter contains any TypeDescriptor that is the ReturnPropertyDescriptor of any MethodInstance contained by the Method containing the Parameter.
MetadataObjectCreate	The MetadataObjectCreate operation creates a MetadataObject in the metadata store. If the specified MetadataObject is a MetadataCatalog and another MetadataCatalog with the same partition (1) as the specified MetadataCatalog already exists, this operation MUST NOT change the state of the data in the metadata store.
MetadataObjectMergeXml	<p>The MetadataObjectMergeXml operation merges the Properties, localized names, and access control entries contained by the specified MetadataModel into the existing MetadataObjects in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [XML] section 4.3.2 and MUST have one of the following elements as the root element:</p> <ul style="list-style-type: none"> An Action element, as specified in [MS-BDCMFFS] section 2.2.4.27. An ActionParameter element, as specified in [MS-BDCMFFS] section 2.2.4.29. An Association element, as specified in [MS-BDCMFFS] section 2.2.4.30. An AssociationGroup element, as specified in [MS-BDCMFFS] section 2.2.4.13. An Entity element, as specified in [MS-BDCMFFS]

WSDL Operation	Description
	<p>section 2.2.4.11.</p> <ul style="list-style-type: none"> ▪ A FilterDescriptor element, as specified in [MS-BDCMFFS] section 2.2.4.19. ▪ An Identifier element, as specified in [MS-BDCMFFS] section 2.2.4.15. ▪ A LobSystem element, as specified in [MS-BDCMFFS] section 2.2.4.7. ▪ A LobSystemInstance element, as specified in [MS-BDCMFFS] section 2.2.4.9. ▪ A Method element, as specified in [MS-BDCMFFS] section 2.2.4.17. ▪ A MethodInstance element, as specified in [MS-BDCMFFS] section 2.2.4.21. ▪ A Model element, as specified in [MS-BDCMFFS] section 2.2.4.1. ▪ A Parameter element, as specified in [MS-BDCMFFS] section 2.2.4.23.
MetadataObjectReadXml	<p>The MetadataObjectReadXml operation creates MetadataObjects in the metadata store, optionally along with their Properties, localized names, and access control entries contained by the specified MetadataModel. This operation creates Properties, localized names, and access control entries for the default Setting. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [XML] section 4.3.2 and MUST have one of the following elements as the root element:</p> <ul style="list-style-type: none"> ▪ An Action element, as specified in [MS-BDCMFFS] section 2.1.4.34. ▪ An ActionParameter element, as specified in [MS-BDCMFFS] section 2.1.4.36. ▪ An Association element, as specified in [MS-BDCMFFS] section 2.1.4.37. ▪ An AssociationGroup element, as specified in [MS-BDCMFFS] section 2.1.4.13. ▪ An Entity element, as specified in [MS-BDCMFFS] section 2.1.4.11. ▪ An Identifier element, as specified in [MS-BDCMFFS] section 2.1.4.16. ▪ A FilterDescriptor element, as specified in [MS-BDCMFFS] section 2.1.4.20. ▪ A LobSystem element, as specified in [MS-BDCMFFS]

WSDL Operation	Description
	<p>section 2.1.4.7.</p> <ul style="list-style-type: none"> ▪ A LobSystemInstance element, as specified in [MS-BDCMFFS] section 2.1.4.9. ▪ A Method element, as specified in [MS-BDCMFFS] section 2.1.4.18. ▪ A MethodInstance element, as specified in [MS-BDCMFFS] section 2.1.4.22. ▪ A Parameter element, as specified in [MS-BDCMFFS] section 2.1.4.24.
MetadataObjectWriteXml	<p>The MetadataObjectWriteXml operation is used to retrieve an XML representation of the following objects from the metadata store:</p> <ul style="list-style-type: none"> ▪ MetadataObjects contained by the MetadataModel along with their Properties, localized names and access control entries, if "Model" value is specified for the packageContents element. The XML MUST conform to [MS-BDCMFFS] section 2.1. ▪ Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the MetadataModel, if "Model" value is not specified for the packageContents element. The XML MUST conform to [MS-BDCMFFS] section 2.2. <p>The MetadataModel used for this operation MUST contain the specified MetadataObject, and other MetadataObjects that are contained by the MetadataModel; it MUST NOT contain any other MetadataObjects.</p> <p>If the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request, and if the specified MetadataModel contains LobSystems that the security principal (1) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those LobSystems, and MUST NOT contain other MetadataObjects contained by MetadataObjects that are not contained in the result for this reason.</p>
ModelReadXml	<p>The ModelReadXml operation creates the MetadataObjects contained by the specified MetadataModel in the metadata store. The Properties, localized names, and access control entries of the MetadataObjects are also created. The MetadataModel MUST be specified as XML that conforms to the Business Data Connectivity Model File Format specified in [MS-BDCMFFS] section 2.1.4.1. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystemInstances contained by that LobSystem and the Properties, localized names, and access control entries of the ignored MetadataObjects. If</p>

WSDL Operation	Description
	the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store and the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by the Entity or other ignored MetadataObjects and the Properties, localized names, and access control entries of the ignored MetadataObjects.
ReadSlicedXml	The ReadSlicedXml operation creates the Model or LobSystem and its referenced MetadataObjects, along with the Properties, localized names, and access control entries of the MetadataModel in the metadata store. The MetadataModel is represented as an implementation-specific string. The MetadataModel MUST contain a single Model or LobSystem, along with all contained MetadataObjects and their Properties in all Settings, localized names in all Settings, and access control entries in all Settings. The protocol client typically uses this operation to restore a backed-up Model or LobSystem to a specified partition (1). The WriteSlicedXml operation, as specified in section 3.1.4.115 , retrieves the string to be used as an input for this operation.
RemoveEntityFromModel	The RemoveEntityFromModel operation removes the reference to the specified Entity from the specified Model.
RemoveLocalizedName	The RemoveLocalizedName operation removes the localized name with the specified LCID from the specified MetadataObject.
RemoveProperty	The RemoveProperty operation removes the specified Property from the specified MetadataObject.
RemoveThrottlingRule	The RemoveThrottlingRule operation deletes the specified throttle configuration setting.
SaveLocalizedName	The SaveLocalizedName operation adds or replaces a localized name for the specified MetadataObject. If a localized name with the same LCID as the specified LCID already exists for the specified MetadataObject, the protocol server MUST replace the localized name of the specified MetadataObject with the specified localized name.
SaveProperty	The SaveProperty operation adds or replaces a Property for the specified MetadataObject. If a Property with the same name as the specified Property already exists for the specified MetadataObject, the protocol server MUST replace the Property of the MetadataObject with the specified Property.
SetAccessControlEntries	The SetAccessControlEntries operation sets access control entries for the specified MetadataObject. The protocol server MUST delete all access control entries of the specified MetadataObject for the specified Setting,

WSDL Operation	Description
	and then add the specified access control entries to the specified MetadataObject.
SetDefaultActionForEntity	The SetDefaultActionForEntity operation sets the default Action for the specified Entity.
SetDefaultValuesForTypeDescriptor	The SetDefaultValuesForTypeDescriptor operation sets the DefaultValue of the TypeDescriptor with the MetadataObjectId specified by the TypeDescriptorId element of the specified DefaultValueStruct complex type for the MethodInstance, with the MetadataObjectId specified by the methodInstanceId element of the specified DefaultValueStruct .
SetLobSystemDataByLobSystemId	The SetLobSystemDataByLobSystemId operation sets the Business Logic Modules<21> for the specified LobSystem.
TypeDescriptorCreate	The TypeDescriptorCreate operation creates a TypeDescriptor in the metadata store.
TypeDescriptorMergeXml	The TypeDescriptorMergeXml operation merges the Properties and localized names contained by the TypeDescriptors in the specified MetadataModel into an existing TypeDescriptor in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity as specified in [XML] section 4.3.2 and MUST have as a root element the TypeDescriptor element, as specified in [MS-BDCMFFS] section 2.2.4.24.
TypeDescriptorReadXml	The TypeDescriptorReadXml operation creates the TypeDescriptors contained by the specified MetadataModel, along with their Properties, localized names, and access control entries, in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity, as specified in [XML] section 4.3.2, and MUST have as a root element the TypeDescriptor element, as specified in [MS-BDCMFFS] section 2.1.4.25.
Update	The Update operation updates a MetadataObject in the metadata store.
WriteSlicedXml	The WriteSlicedXml operation retrieves an implementation-specific string corresponding to the specified LobSystem or Model,<22> along with its included MetadataObjects. This operation can also optionally retrieve the localized names, Properties, and access control entries in all Settings. The protocol client typically uses this operation to back up a Model or an LobSystem in a specified partition (1). The ReadSlicedXml operation, as specified in section 3.1.4.100, can be used to restore the Model or LobSystem by specifying the string returned from this operation.

3.1.4.1 Activate

The **Activate** operation activates the specified Entity.

```
<wsdl:operation name="Activate">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Activate" message="tns:BusinessDataCatalogSharedService_Activate_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateResponse"
message="tns:BusinessDataCatalogSharedService_Activate_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMe
ssage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessag
e"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_Fault
Message"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessa
ge"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_Fault
Message"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_Activate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Activate_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace	The security principal

Error complex type	Condition
http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure	(1) in whose context the protocol client is operating is not authorized to edit the specified Entity.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity has been updated by a context other than the one by which it was currently being read. This happens when the specified object version is not equal to the current object version of the Entity. For example, this error can be raised when one context reads an Entity, another context updates the same Entity, and then the original context tries to update.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed for one of the following reasons: <ul style="list-style-type: none"> ▪ The specified Entity or another version of the specified Entity is already active. ▪ The protocol server encountered reference errors as specified in section 3.1.4.5.3.2 when performing this operation.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist.

3.1.4.1.1 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.1.1.1 BusinessDataCatalogSharedService_Activate_InputMessage

The request WSDL message for the **Activate** WSDL operation.

The **SOAP action** value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Activate
```

The **SOAP body** contains the **Activate** element.

3.1.4.1.1.2 BusinessDataCatalogSharedService_Activate_OutputMessage

The response WSDL message for the **Activate** WSDL operation.

The SOAP body contains the **ActivateResponse** element.

3.1.4.1.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.1.2.1 Activate

The input data for the **Activate** WSDL operation.

```
<xs:element name="Activate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q136="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStruct" type="q136:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityStruct: The specified Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.1.2.2 ActivateResponse

The result data for the **Activate** WSDL operation.

```
<xs:element name="ActivateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q137="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="ActivateResult" type="q137:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ActivateResult: The activated Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 AddAssociationReferenceToAssociationGroup

The **AddAssociationReferenceToAssociationGroup** operation creates the specified AssociationReference in the specified AssociationGroup.

```
<wsdl:operation name="AddAssociationReferenceToAssociationGroup">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddAssociationReferenceToAssociationGroup"
    message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Input
    Message"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddAssociationReferenceToAssociationGroupResponse"
    message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Outpu
    tMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
    entExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Metad
    ataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
    entNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the Entity containing the specified AssociationGroup.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationGroup has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the AssociationGroup. For example, this error can be raised when one context reads the AssociationGroup, another context updates the same AssociationGroup, and then the original context tries to

Error complex type	Condition
	update.
DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)	Another AssociationReference in the specified AssociationGroup references the Association that is referenced by the specified AssociationReference.
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationGroup already contains the implementation-specific maximum number of AssociationReferences.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the Entity containing the AssociationGroup is active.

3.1.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.2.1.1

BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage

The request WSDL message for the **AddAssociationReferenceToAssociationGroup** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddAssociationReferenceToAssociationGroup
```

The SOAP body contains the **AddAssociationReferenceToAssociationGroup** element.

3.1.4.2.1.2

BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessage

The response WSDL message for the **AddAssociationReferenceToAssociationGroup** WSDL operation.

The SOAP body contains the **AddAssociationReferenceToAssociationGroupResponse** element.

3.1.4.2.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.2.2.1 AddAssociationReferenceToAssociationGroup

The input data for the **AddAssociationReferenceToAssociationGroup** WSDL operation.

```
<xs:element name="AddAssociationReferenceToAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q232="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="associationGroupStruct" type="q232:AssociationGroupStruct"/>
      <xs:element xmlns:q233="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="associationReferenceStruct" type="q233:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationGroupStruct: The AssociationGroup. The partition (1) of this AssociationGroup MUST be the partition (1) of the protocol client.

associationReferenceStruct: The AssociationReference. The partition (1) of this AssociationReference MUST be the partition (1) of the protocol client.

3.1.4.2.2.2 AddAssociationReferenceToAssociationGroupResponse

The result data for the **AddAssociationReferenceToAssociationGroup** WSDL operation.

```
<xs:element name="AddAssociationReferenceToAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q234="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="AddAssociationReferenceToAssociationGroupResult" type="q234:AssociationGroupStruct"/>
      <xs:element xmlns:q235="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="associationReferenceStruct" type="q235:AssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

AddAssociationReferenceToAssociationGroupResult: The AssociationGroup. The partition (1) of this AssociationGroup MUST be the partition (1) of the protocol client.

associationReferenceStruct: The AssociationReference. The partition (1) of this AssociationReference MUST be the partition (1) of the protocol client.

3.1.4.2.3 Complex Types

None.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 AddEntityToModel

The **AddEntityToModel** operation adds a reference to the specified Entity to the specified Model.

```
<wsdl:operation name="AddEntityToModel">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelResponse"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_AddEntityToModel_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified Model.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The partition (1) of the specified Entity is not the same as the partition (1) of the specified Model.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model or the specified Entity<23> does not exist.

3.1.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.3.1.1 BusinessDataCatalogSharedService_AddEntityToModel_InputMessage

The request WSDL message for the **AddEntityToModel** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddEntityToModel
```

The SOAP body contains the **AddEntityToModel** element.

3.1.4.3.1.2

BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage

The response WSDL message for the **AddEntityToModel** WSDL operation.

The SOAP body contains the **AddEntityToModelResponse** element.

3.1.4.3.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.3.2.1 AddEntityToModel

The input data for the **AddEntityToModel** WSDL operation.

```
<xs:element name="AddEntityToModel">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q74="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="modelStruct" type="q74:ModelStruct"/>
      <xs:element xmlns:q75="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStruct" type="q75:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelStruct: The Model. The partition (1) of this Model MUST be the partition (1) of the protocol client.

entityStruct: The Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.3.2.2 AddEntityToModelResponse

The result data for the **AddEntityToModel** WSDL operation.

```
<xs:element name="AddEntityToModelResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 AddThrottlingRule

The **AddThrottlingRule** operation adds the specified throttle configuration setting to the metadata store.

```
<wsdl:operation name="AddThrottlingRule">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRule"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleResponse"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_AccessDeniedExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage** response message.

3.1.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.4.1.1 BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage

The request WSDL message for the **AddThrottlingRule** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/AddThrottlingRule
```

The SOAP body contains the **AddThrottlingRule** element.

3.1.4.4.1.2

BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage

The response WSDL message for the **AddThrottlingRule** WSDL operation.

The SOAP body contains the **AddThrottlingRuleResponse** element.

3.1.4.4.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.4.2.1 AddThrottlingRule

The input data for the **AddThrottlingRule** WSDL operation.

```
<xs:element name="AddThrottlingRule">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q224="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="safetyNetStruct" type="q224:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

safetyNetStruct: The throttle configuration setting to add.

3.1.4.4.2.2 AddThrottlingRuleResponse

The result data for the **AddThrottlingRule** WSDL operation.

```
<xs:element name="AddThrottlingRuleResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.4.3 Complex Types

None.

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 BulkSwitchActiveOrValidate

The **BulkSwitchActiveOrValidate** operation changes the active version of the specified set of Entities or validates the specified Entities for the purpose of changing the active versions and identifying related errors.

```
<wsdl:operation name="BulkSwitchActiveOrValidate">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidate"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidateResponse"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExce
    ptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionSta
    teFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExcepti
    onStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFau
    lt_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptio
    nFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeEx
    ceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFau
    lt_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The value of the validate element is set to FALSE, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the specified Entities or the currently active versions of the specified Entities.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The partition (1) of the specified Model is different from the partition (1) of any of the specified Entities.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The entityStructs element in the BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage has no elements.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	At least one of the specified Entities has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the Entity. For example, this error can be raised when one context reads the given Entity, after which another context updates the same Entity, and then the original context tries to update the same Entity.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the value of the validate element is set to "FALSE" and the protocol server encountered reference errors as specified in section 3.1.4.5.3.2 when performing this operation.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because one or more of the specified Entities is already active.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	One or more of the specified Entities does not exist.

3.1.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.5.1.1

BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage

The request WSDL message for the **BulkSwitchActiveOrValidate** WSDL operation.

The SOAP action value is:

The SOAP body contains the **BulkSwitchActiveOrValidate** element.

3.1.4.5.1.2

BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage

The response WSDL message for the **BulkSwitchActiveOrValidate** WSDL operation.

The SOAP body contains the **BulkSwitchActiveOrValidateResponse** element.

3.1.4.5.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.5.2.1 BulkSwitchActiveOrValidate

The input data for the **BulkSwitchActiveOrValidate** WSDL operation.

```
<xs:element name="BulkSwitchActiveOrValidate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q140="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStructs" type="q140:ArrayOfEntityStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="validate" type="xs:boolean"/>
      <xs:element xmlns:q141="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="modelStruct" nillable="true" type="q141:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityStructs: The Entities that are to be set active. At least one Entity MUST be specified. The partition (1) of each of the Entities in this element MUST be the partition (1) of the protocol client. If the value of the **validate** element is set to FALSE, the protocol server MUST set previously active versions of the specified Entities to not active upon successful completion of this operation.

validate: This element specifies whether the state of the data stored in the protocol server can be changed. If it is set to FALSE, the protocol server MUST change the active versions of the Entities. If it is set to TRUE, the protocol server MUST validate the specified Entities to change the active versions and return any associated errors, and the protocol server MUST NOT change the state of the data stored on the protocol server.

modelStruct: The Model to which to add the specified Entities. The partition (1) of this Model MUST be the partition (1) of the protocol client. If the value of this element is not NULL and the value of the **validate** element is set to FALSE, this operation MUST add all specified Entities to the specified Model upon successful completion.

3.1.4.5.2.2 BulkSwitchActiveOrValidateResponse

The result data for the **BulkSwitchActiveOrValidate** WSDL operation.

```
<xs:element name="BulkSwitchActiveOrValidateResponse">
  <xs:complexType>
```



```

    <xs:sequence>
      <xs:element xmlns:q142="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="BulkSwitchActiveOrValidateResult" type="q142:ArrayOfActivationErrorRecordStruct"/>
      <xs:element xmlns:q143="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStructs" type="q143:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

BulkSwitchActiveOrValidateResult: The reference errors encountered during the operation. The operation is successful if this element does not contain any reference errors.

entityStructs: This element MUST contain information about Entities that were updated as a result of this operation. The value of this element MUST be ignored by the protocol client if the value of the **validate** element is set to TRUE. The partition (1) of the Entities MUST be the partition (1) of the protocol client.

3.1.4.5.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.5.3.1 ArrayOfActivationErrorRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActivationErrorRecordStruct** complex type contains reference errors encountered during the operation.

```

<xs:complexType name="ArrayOfActivationErrorRecordStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="tns:ActivationErrorRecordStruct"/>
  </xs:sequence>
</xs:complexType>

```

ActivationErrorRecordStruct: A reference error encountered during the operation.

3.1.4.5.3.2 ActivationErrorRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ActivationErrorRecordStruct** complex type contains information about a single reference error encountered during the operation. A reference error indicates that a MetadataObject has a reference to an invalid **MetadataObject**. The value of the **errorCode** element specifies which **MetadataObject** has an error and the error type.

```

<xs:complexType name="ActivationErrorRecordStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

```

    <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingEntityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingEntityVersion" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingMethodName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="containingParameterName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="errorCode" type="xs:int"/>
    <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

aGAssociationEntityReferenceName: The name of the Entity containing the Association referenced by the AssociationReference that is in error.

aGAssociationEntityReferenceNamespace: The namespace of the Entity containing the Association referenced by the AssociationReference that is in error.

aGAssociationReferenceName: The name of the Association referenced by the AssociationReference that is in error.

containingAssociationGroupName: The name of the AssociationGroup that is in error or contains the AssociationReference that is in error.

containingEntityName: The name of the Entity that is in error or contains the MetadataObject that is in error.

containingEntityNamespace: The namespace of the Entity that is in error or contains the MetadataObject that is in error.

containingEntityVersion: The string representation of the version of the Entity that is in error or contains the MetadataObject in error. Following is the ABNF, as specified in [\[RFC5234\]](#), for the **ContainingEntityVersion** structure:

```
ContainingEntityVersion = Major %x2E Minor *1(%x2E Build *1(%x2E Revision))
```

```
Major = 1*10DIGIT
```

```
Minor = 1*10DIGIT
```

```
Build = 1*10DIGIT
```

Revision = 1*10DIGIT

Major MUST be the major version of the Entity. **Minor** MUST be the minor version of the Entity. **Build** MUST be of the Entity. **Revision** MUST be of the Entity.

containingMethodName: The name of the Method that contains the MetadataObject that is in error.

containingParameterName: The name of the Parameter that contains the MetadataObject that is in error.

containingTypeDescriptorId: The MetadataObjectId of the TypeDescriptor that is in error.

containingTypeDescriptorName: The name of the TypeDescriptor that is in error.

errorCode: The error code. The following table describes possible values.

Value	Description
-1003	<p>A TypeDescriptor is in error because it references an Identifier that does not exist in the specified Entity. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none">▪ containingEntityNamespace▪ containingEntityName▪ containingEntityVersion▪ containingMethodName▪ containingParameterName▪ containingTypeDescriptorName▪ containingTypeDescriptorId▪ tDIDReferenceName▪ tDIDReferenceTypeName▪ tDIDEntityReferenceName▪ tDIDEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1004	<p>A TypeDescriptor is in error because it references an Association that does not exist in the specified Entity. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none">▪ containingEntityNamespace▪ containingEntityName▪ containingEntityVersion▪ containingMethodName▪ containingParameterName▪ containingTypeDescriptorName

Value	Description
	<ul style="list-style-type: none"> ▪ containingTypeId ▪ tDAssociationReferenceName ▪ tDAssociationEntityReferenceName ▪ tDAssociationEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1005	<p>An Entity is in error because the TypeDescriptors that are contained in the Parameters of its Methods are referencing only non-empty subset of Identifiers of an active Entity. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ tDIDEntityReferenceName ▪ tDIDEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1008	<p>An AssociationReference is in error because it references an Association that does not exist in the specified Entity. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingAssociationGroupName ▪ aGAssociationReferenceName ▪ aGAssociationEntityReferenceName ▪ aGAssociationEntityReferenceNamespace <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1011	<p>An Association is in error because the Entity containing the Association is not contained by the same LobSystem as the destination Entity of the Association. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ ContainingEntityNamespace ▪ ContainingEntityName ▪ ContainingEntityVersion ▪ ContainingMethodName

Value	Description
	<ul style="list-style-type: none"> ▪ aGAssociationReferenceName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-1012	<p>An Association is in error because all of the conditions in the following list are true:</p> <ul style="list-style-type: none"> ▪ The destination Entity of the Association contains MethodInstance, and there exists a TypeDescriptor contained by the Parameter that contains the ReturnPropertyDescriptor of this MethodInstance. ▪ The same TypeDescriptor references an Identifier of a source Entity of the Association. ▪ The same TypeDescriptor references the Association. ▪ The ReturnPropertyDescriptor of the Association has the "IsCollection" flag not set. <p>Or, all of the conditions in the following list are true:</p> <ul style="list-style-type: none"> ▪ The source Entity of the Association contains a MethodInstance, and there exists a TypeDescriptor contained by the Parameter that contains the ReturnPropertyDescriptor of this MethodInstance. ▪ The same TypeDescriptor references an Identifier of the destination Entity of the Association. ▪ The same TypeDescriptor references the Association. ▪ The ReturnPropertyDescriptor of the Association has the "IsCollection" flag set. <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ ContainingEntityNamespace ▪ ContainingEntityName ▪ ContainingEntityVersion ▪ ContainingMethodName ▪ aGAssociationReferenceName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-800	<p>An AssociationGroup is in error because all Associations referenced by the AssociationReferences contained by this AssociationGroup with the IsReverse attribute not set do not have same sources. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-801	<p>An AssociationGroup is in error because one of the following conditions is true:</p> <ul style="list-style-type: none"> ▪ The Entity containing AssociationGroup is not the destination of this AssociationGroup.

Value	Description
	<ul style="list-style-type: none"> The AssociationGroup contains AssociationReferences with the IsReverse attribute is TRUE, but the AssociationGroup has more than one source. <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> containingEntityNamespace containingEntityName containingEntityVersion containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-802	<p>An AssociationGroup is in error because there is more than one Association that is an Associator or a Disassociator referenced from the AssociationReferences of this AssociationGroup. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> containingEntityNamespace containingEntityName containingEntityVersion containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-803	<p>An AssociationGroup is in error because one of the following conditions is met:</p> <ul style="list-style-type: none"> There more than one Association that is a BulkAssociatedIdEnumerator referenced from the AssociationReferences of this AssociationGroup with the IsReverse attribute is FALSE. There are more Associations that are BulkAssociatedIdEnumerators referenced from the AssociationReferences of this AssociationGroup with the IsReverse attribute is TRUE than the number of sources of this AssociationGroup. <p>For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> containingEntityNamespace containingEntityName containingEntityVersion containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-804	<p>An AssociationGroup is in error because it contains an AssociationReference that has the IsReverse attribute TRUE, but the Association it references is not an AssociationNavigator, a BulkAssociationNavigator, or a BulkAssociatedIdEnumerator. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> containingEntityNamespace containingEntityName

Value	Description
	<ul style="list-style-type: none"> ▪ containingEntityVersion ▪ containingAssociationGroupName <p>Values of all other elements MUST be ignored by the protocol client.</p>
-805	<p>An Association is in error because it is a BulkAssociationNavigator, but it is not referenced from an AssociationReference that is contained in an AssociationGroup that has another AssociationReference that references an Association that is an AssociationNavigator and has the same value for IsReverse. For this error code, the following MUST NOT be NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ aGAssociationReferenceName <p>If the Association is referenced from an AssociationReference, containingAssociationGroupName MUST also not be NULL. Otherwise, it MUST be NULL. Values of all other elements MUST be ignored by the protocol client.</p>
-806	<p>An Association is in error because it is referenced by two or more AssociationReferences. For this error code, the following MUST NOT be not NULL:</p> <ul style="list-style-type: none"> ▪ containingEntityNamespace ▪ containingEntityName ▪ containingEntityVersion ▪ containingMethodName ▪ aGAssociationReferenceName <p>Values of all other elements MUST be ignored by the protocol client.</p>

tDAssociationEntityReferenceName: The name of the Entity that contains the Association referenced by the TypeDescriptor that is in error.

tDAssociationEntityReferenceNamespace: The namespace of the Entity that contains the Association referenced by the TypeDescriptor that is in error.

tDAssociationReferenceName: The name of the Association referenced by the TypeDescriptor that is in error.

tDIDEntityReferenceName: The name of the Entity containing the Identifier referenced by the TypeDescriptor that is in error.

tDIDEntityReferenceNamespace: The namespace of the Entity containing the Identifier referenced by the TypeDescriptor that is in error.

tDIDReferenceName: The name of the Identifier referenced by the TypeDescriptor that is in error.

tDIDReferenceTypeName: The name of the data type that is represented by the TypeDescriptor that is in error.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 CheckPathInMethodInstances

The **CheckPathInMerthodInstances** operation retrieves whether the specified path, which conforms to [\[MS-BDCMFFS\]](#) section 2.1.5.5, corresponds to a TypeDescriptor in a View of the MethodInstances of the specified type contained by the specified DataClass, along with the MetadataObjectId of one such MethodInstance, if one exists.

```
<wsdl:operation name="CheckPathInMethodInstances">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstances"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesResponse"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionSta
teFault_FaultMessage"/>
</wsdl:operation>
```


The protocol client sends a **BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified path did not conform to the specification for TypeDescriptorPathStrings in [MS-BDCMFFS] section 2.1.5.5.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist.

3.1.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.6.1.1

BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage

The request WSDL message for the **CheckPathInMethodInstances** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CheckPathInMethodInstances
```

The SOAP body contains the **CheckPathInMethodInstances** element.

3.1.4.6.1.2

BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage

The response WSDL message for the **CheckPathInMethodInstances** WSDL operation.

The SOAP body contains the **CheckPathInMethodInstancesResponse** element.

3.1.4.6.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.6.2.1 CheckPathInMethodInstances

The input data for the **CheckPathInMethodInstances** WSDL operation.

```
<xs:element name="CheckPathInMethodInstances">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"/>
    <xs:element minOccurs="1" maxOccurs="1" name="dottedPath" type="xs:string"/>
    <xs:element
      xmlns:q171="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
      minOccurs="1" maxOccurs="1" name="type" type="q171:MethodInstanceType"/>
    <xs:element xmlns:q172="http://schemas.microsoft.com/2003/10/Serialization/"
      minOccurs="1" maxOccurs="1" name="partitionId" type="q172:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

dataClassId: The MetadataObjectId of DataClass that contains the MethodInstances.

dottedPath: The path to the TypeDescriptor from the TypeDescriptors contained by the ReturnTypeDescriptor of the MethodInstance. The value MUST be a path as specified in [\[MS-BDCMFFS\]](#) section 2.1.5.5.

type: The type of the MethodInstance to retrieve.

partitionId: The partition (1) of the protocol client.

3.1.4.6.2.2 CheckPathInMethodInstancesResponse

The result data for the **CheckPathInMethodInstances** WSDL operation.

```

<xs:element name="CheckPathInMethodInstancesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="CheckPathInMethodInstancesResult"
        type="xs:boolean"/>
      <xs:element minOccurs="1" maxOccurs="1" name="methodInstanceId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

CheckPathInMethodInstancesResult: If methodInstanceId is 0, the value MUST be FALSE. Otherwise, the value MUST be TRUE.

methodInstanceId: The value MUST be the MetadataObjectId of any of the MethodInstances of the specified type contained by the specified DataClass that has a TypeDescriptor in its View corresponding to the specified path. If the specified DataClass contains more than one MethodInstance that matches the criteria, which of those MethodInstances is returned is determined in an implementation-specific manner. If the specified DataClass does not contain a MethodInstance that matches the criteria, the value MUST be 0.

3.1.4.6.3 Complex Types

None.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 ClearLocalizedNames

The **ClearLocalizedNames** operation removes all localized names of the specified **MetadataObject** from the specified **Setting**.

```
<wsdl:operation name="ClearLocalizedNames">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesResponse"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified MetadataObject.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.7.1.1

BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage

The request WSDL message for the **ClearLocalizedNames** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNames
```

The SOAP body contains the **ClearLocalizedNames** element.

3.1.4.7.1.2

BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage

The response WSDL message for the **ClearLocalizedNames** WSDL operation.

The SOAP body contains the **ClearLocalizedNamesResponse** element.

3.1.4.7.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.7.2.1 ClearLocalizedNames

The input data for the **ClearLocalizedNames** WSDL operation.

```
<xs:element name="ClearLocalizedNames">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q21="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q21:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject from which the localized names are to be removed. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

settingId: The Setting from which to delete the localized names.

3.1.4.7.2.2 ClearLocalizedNamesResponse

The result data for the **ClearLocalizedNames** WSDL operation.

```
<xs:element name="ClearLocalizedNamesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.7.3 Complex Types

None.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Attribute Groups

None.

3.1.4.8 ClearProperties

The **ClearProperties** operation removes all Properties of the specified MetadataObject from the specified Setting.

```

<wsdl:operation name="ClearProperties">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesResponse"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ClearProperties_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ClearProperties_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is

Error complex type	Condition
	operating is not authorized to edit the specified MetadataObject.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.8.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.8.1.1 BusinessDataCatalogSharedService_ClearProperties_InputMessage

The request WSDL message for the **ClearProperties** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearProperties
```

The SOAP body contains the **ClearProperties** element.

3.1.4.8.1.2 BusinessDataCatalogSharedService_ClearProperties_OutputMessage

The response WSDL message for the **ClearProperties** WSDL operation.

The SOAP body contains the **ClearPropertiesResponse** element.

3.1.4.8.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.8.2.1 ClearProperties

The input data for the **ClearProperties** WSDL operation.

```
<xs:element name="ClearProperties">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q25="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q25:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject from which the Properties are to be removed. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

settingId: The Setting from which to delete the Properties.

3.1.4.8.2.2 ClearPropertiesResponse

The result data for the **ClearProperties** WSDL operation.

```
<xs:element name="ClearPropertiesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.8.3 Complex Types

None.

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9 CopyAclAcrossChildren

The **CopyAclAcrossChildren** operation clears the access control entries of the descendent MetadataObjects of a specified MetadataObject and copies the access control entries of the specified MetadataObject to the descendent MetadataObjects. A given MetadataObject is a descendent of the specified MetadataObject if the MetadataObject that contains the given MetadataObject is also a descendent of the specified MetadataObject or the MetadataObject is contained by the specified MetadataObject.

If the specified MetadataObject is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, the protocol server MUST NOT change the access control entries of any LobSystem and its descendent MetadataObjects if the security principal (1) in whose context the protocol client is operating is not authorized to edit the LobSystem.

```
<wsdl:operation name="CopyAclAcrossChildren">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren"
    message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenResponse"
    message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage"/>
```



```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeException
onFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFaul
t_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to set permissions on the specified MetadataObject.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified

Error complex type	Condition
	MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.9.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.9.1.1

BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage

The request WSDL message for the **CopyAclAcrossChildren** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren
```

The SOAP body contains the **CopyAclAcrossChildren** element.

3.1.4.9.1.2

BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage

The response WSDL message for the **CopyAclAcrossChildren** WSDL operation.

The SOAP body contains the **CopyAclAcrossChildrenResponse** element.

3.1.4.9.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.9.2.1 CopyAclAcrossChildren

The input data for the **CopyAclAcrossChildren** WSDL operation.

```
<xs:element name="CopyAclAcrossChildren">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q49="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q49:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

3.1.4.9.2.2 CopyAclAcrossChildrenResponse

The result data for the **CopyAclAcrossChildren** WSDL operation.

```
<xs:element name="CopyAclAcrossChildrenResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.9.3 Complex Types

None.

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10 CopyAclAcrossChildrenForSetting

The **CopyAclAcrossChildrenForSetting** operation clears the access control entries in a specified Setting on the descendent MetadataObjects of the specified MetadataObject and copies the access control entries in the specified Setting on the specified MetadataObject to the descendent MetadataObjects. A given MetadataObject is a descendent of the specified MetadataObject if the MetadataObject that contains the given MetadataObject is also a descendent of the specified MetadataObject or the MetadataObject is contained by the specified MetadataObject.

If the specified MetadataObject is a MetadataCatalog and the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, the protocol server MUST NOT change the access control entries of any LobSystem and its descendent MetadataObjects if the security principal (1) in whose context the protocol client is operating is not authorized to edit the LobSystem.

```
<wsdl:operation name="CopyAclAcrossChildrenForSetting">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting"
    message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSettingResponse"
    message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSta
teFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperatio
nExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExcepti
onStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExc
eptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to set permissions on the specified MetadataObject.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.10.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.10.1.1

BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage

The request WSDL message for the **CopyAclAcrossChildrenForSetting** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenForSetting
```

The SOAP body contains the **CopyAclAcrossChildrenForSetting** element.

3.1.4.10.1.2

BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage

The response WSDL message for the **CopyAclAcrossChildrenForSetting** WSDL operation.

The SOAP body contains the **CopyAclAcrossChildrenForSettingResponse** element.

3.1.4.10.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.10.2.1 CopyAclAcrossChildrenForSetting

The input data for the **CopyAclAcrossChildrenForSetting** WSDL operation.

```
<xs:element name="CopyAclAcrossChildrenForSetting">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q50="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q50:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

settingId: The Setting to copy the ACEs to and from.

3.1.4.10.2.2 CopyAclAcrossChildrenForSettingResponse

The result data for the **CopyAclAcrossChildrenForSetting** WSDL operation.

```
<xs:element name="CopyAclAcrossChildrenForSettingResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.10.3 Complex Types

None.

3.1.4.10.4 Simple Types

None.

3.1.4.10.5 Attributes

None.

3.1.4.10.6 Groups

None.

3.1.4.10.7 Attribute Groups

None.

3.1.4.11 CopyAclToSetting

The **CopyAclToSetting** operation deletes the access control entries in the specified non-default Setting of the specified MetadataObject and copies the access control entries in the default Setting of the specified MetadataObject to the specified Setting of the specified MetadataObject.

```
<wsdl:operation name="CopyAclToSetting">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting"
    message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingResponse"
    message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSettingFault"
    message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_FaultMessage"/>
</wsdl:operation>
```

```

edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMe
ssage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMe
ssage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault
_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_Fa
ultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_Fau
ltMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified access control entries.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace	The specified MetadataObject does

Error complex type	Condition
Microsoft.SharePoint.BusinessData	not exist in the metadata store.

3.1.4.11.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.11.1.1

BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage

The request WSDL message for the **CopyAclToSetting** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclToSetting
```

The SOAP body contains the **CopyAclToSetting** element.

3.1.4.11.1.2

BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage

The response WSDL message for the **CopyAclToSetting** WSDL operation.

The SOAP body contains the **CopyAclToSettingResponse** element.

3.1.4.11.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.11.2.1 CopyAclToSetting

The input data for the **CopyAclToSetting** WSDL operation.

```
<xs:element name="CopyAclToSetting">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q51="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q51:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this element MUST be the partition (1) of the protocol client.

settingId: The Setting to which to write the access control entries.

3.1.4.11.2.2 CopyAclToSettingResponse

The result data for the **CopyAclToSetting** WSDL operation.

```
<xs:element name="CopyAclToSettingResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.11.3 Complex Types

None.

3.1.4.11.4 Simple Types

None.

3.1.4.11.5 Attributes

None.

3.1.4.11.6 Groups

None.

3.1.4.11.7 Attribute Groups

None.

3.1.4.12 Deactivate

The **Deactivate** operation sets an active version of an Entity to not active.

```
<wsdl:operation name="Deactivate">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/Deactivate"
    message="tns:BusinessDataCatalogSharedService_Deactivate_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeactivateResponse"
    message="tns:BusinessDataCatalogSharedService_Deactivate_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fau
    ltMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage"
    />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMes
sage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage"
/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMess
age"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_Fau
ltMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_Fault
Message"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_Deactivate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Deactivate_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified Entity.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the Entity. For example, this error can be raised when a thread reads the given Entity, another thread updates the same Entity, and then the

Error complex type	Condition
	original thread tries to update.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	This operation cannot be performed because the protocol server encountered reference errors when performing this operation.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	This operation cannot be performed because the specified Entity is not active.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist.

3.1.4.12.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.12.1.1 BusinessDataCatalogSharedService_Deactivate_InputMessage

The request WSDL message for the **Deactivate** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Deactivate
```

The SOAP body contains the **Deactivate** element.

3.1.4.12.1.2 BusinessDataCatalogSharedService_Deactivate_OutputMessage

The response WSDL message for the **Deactivate** WSDL operation.

The SOAP body contains the **DeactivateResponse** element.

3.1.4.12.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.12.2.1 Deactivate

The input data for the **Deactivate** WSDL operation.

```
<xs:element name="Deactivate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q138="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStruct" type="q138:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:complexType>
  </xs:element>

```

entityStruct: The Entity to set to not active. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.12.2.2 DeactivateResponse

The result data for the **Deactivate** WSDL operation.

```

<xs:element name="DeactivateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q139="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="DeactivateResult" type="q139:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

DeactivateResult: The Entity that was set to not active as a result of this operation. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.12.3 Complex Types

None.

3.1.4.12.4 Simple Types

None.

3.1.4.12.5 Attributes

None.

3.1.4.12.6 Groups

None.

3.1.4.12.7 Attribute Groups

None.

3.1.4.13 Delete

The **Delete** operation deletes the specified MetadataObject.

```

<wsdl:operation name="Delete">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Delete" message="tns:BusinessDataCatalogSharedService_Delete_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteResponse"
message="tns:BusinessDataCatalogSharedService_Delete_OutputMessage"/>

```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMess
age"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage
"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMe
ssage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_Delete_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Delete_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, or the specified MetadataObject is a Model and the security principal (1) in whose context the protocol client is operating is not authorized to modify one or more of the LobSystems which contain one or more Entity referenced by

Error complex type	Condition
	the specified Model.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the MetadataObject. For example, this error can be raised when one context reads the given MetadataObject, another context updates the same MetadataObject, and then the original context tries to update the same MetadataObject.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is an Entity, which, if active, MUST be deactivated before being deleted. An attempt was made to deactivate the Entity, but, at the time of the attempt, the Entity was no longer active.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a FilterDescriptor of type TimestampFilter and is currently used in a MethodInstance of type ChangedIdEnumerator or DeletedIdEnumerator
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	One of the following conditions: <ul style="list-style-type: none"> ▪ The specified MetadataObject is an Entity that

Error complex type	Condition
	<p>contains at least one of the following child objects: Action, Method, Identifier, or AssociationGroup.</p> <ul style="list-style-type: none"> ▪ The specified MetadataObject is an LobSystem that contains at least one Entity. ▪ The specified MetadataObject is a Method that contains at least one of the following child objects: FilterDescriptor, MethodInstance or Parameter. ▪ The specified MetadataObject is a Parameter that contains at least one TypeDescriptor child object.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a TypeDescriptor and there is already at least one MethodInstance whose ReturnPropertyDescriptor is the specified TypeDescriptor.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject cannot be deleted because it is either an active Entity or the child of an active Entity.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

Properties that are child objects of the specified MetadataObject MUST also be deleted. If the **MetadataObjectStruct** element specifies any of the MetadataObjects in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified MetadataObject from the metadata store.

MetadataObject	Action
Action	Delete all ActionParameters in the specified Action.
Entity	Delete all Action, Method, Identifier, and AssociationGroups that are child objects of the specified Entity, as well as all their child objects, in a recursive manner. If the LobSystem that is the parent of this Entity contains no other Entities, also delete the LobSystem, as well as all the MetadataObjects contained by the LobSystem in a recursive manner.
LobSystem	Delete all LobSystemInstances that are child objects of the specified LobSystem.
Method	Delete all MethodInstance, FilterDescriptor, and Parameters that are child objects of the specified Method, as well as all their child objects, in a recursive manner.
Model	Delete all LobSystems and Entities that are referenced by the specified Model, as well as all their child objects, in a recursive manner.
Parameter	Delete the root TypeDescriptor of the specified Parameter, as well as all the child objects of the root TypeDescriptor, in a recursive manner.
TypeDescriptor	Delete all the TypeDescriptors that are child objects of the specified TypeDescriptor, as well as all their child objects, in a recursive manner.

3.1.4.13.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.13.1.1 BusinessDataCatalogSharedService_Delete_InputMessage

The request WSDL message for the **Delete** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Delete
```

The SOAP body contains the **Delete** element.

3.1.4.13.1.2 BusinessDataCatalogSharedService_Delete_OutputMessage

The response WSDL message for the **Delete** WSDL operation.

The SOAP body contains the **DeleteResponse** element.

3.1.4.13.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.13.2.1 Delete

The input data for the **Delete** WSDL operation.

```
<xs:element name="Delete">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q36="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q36:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject that this operation MUST delete. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

3.1.4.13.2.2 DeleteResponse

The result data for the **Delete** WSDL operation.

```
<xs:element name="DeleteResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.13.3 Complex Types

None.

3.1.4.13.4 Simple Types

None.

3.1.4.13.5 Attributes

None.

3.1.4.13.6 Groups

None.

3.1.4.13.7 Attribute Groups

None.

3.1.4.14 DeleteAssociationReferenceFromAssociationGroup

The **DeleteAssociationReferenceFromAssociationGroup** operation removes an AssociationReference from an AssociationGroup by deleting the AssociationReference.

```
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InputMessage"/>
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
OutputMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentNullExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
MetadataExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
BdcExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_I
nputMessage** request message, and the protocol server MUST respond with a
**BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_O
utputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context

Error complex type	Condition
	the protocol client is operating is not authorized to edit the Entity that contains the AssociationGroup containing the specified AssociationReference.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The identifier of the specified AssociationReference is set to zero. .<24>
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationReference has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the AssociationReference. For example, this error can be raised when one context reads the AssociationReference, another context updates the same AssociationReference, and then the original context tries to update. .<25>
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the Entity that contains the AssociationGroup that contains the specified AssociationReference is active. .<26>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationReference does not exist. .<27>

3.1.4.14.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.14.1.1

BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMessage

The request WSDL message for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteAssociationReferenceFromAssociationGroup
```

The SOAP body contains the **DeleteAssociationReferenceFromAssociationGroup** element.

3.1.4.14.1.2

BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputMessage

The response WSDL message for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

The SOAP body contains the **DeleteAssociationReferenceFromAssociationGroupResponse** element.

3.1.4.14.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.14.2.1 DeleteAssociationReferenceFromAssociationGroup

The input data for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

```
<xs:element name="DeleteAssociationReferenceFromAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q236="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="associationReferenceStruct" type="q236:AssociationReferenceStruct"/>
      <xs:element xmlns:q237="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q237:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationReferenceStruct: The AssociationReference. The partition (1) of this AssociationReference MUST be the partition (1) of the protocol client.

partitionId: The partition (1) of the protocol client.

3.1.4.14.2.2 DeleteAssociationReferenceFromAssociationGroupResponse

The result data for the **DeleteAssociationReferenceFromAssociationGroup** WSDL operation.

```
<xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse">
  <xs:complexType>
```

```

        <xs:sequence/>
    </xs:complexType>
</xs:element>

```

3.1.4.14.3 Complex Types

None.

3.1.4.14.4 Simple Types

None.

3.1.4.14.5 Attributes

None.

3.1.4.14.6 Groups

None.

3.1.4.14.7 Attribute Groups

None.

3.1.4.15 DeleteDefaultValueForTypeDescriptor

The **DeleteDefaultValueForTypeDescriptor** operation deletes the DefaultValue of the specified TypeDescriptor for the specified MethodInstance.

```

<wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteDefaultValueForTypeDescriptor"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessag
    e"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteDefaultValueForTypeDescriptorResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessa
    ge"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExc
    eptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNul
    lExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"

```

```

message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOut
OfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOper
ationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptio
nStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the Method containing the Parameter containing the specified TypeDescriptor.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId for the TypeDescriptor or the MethodInstance is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor or the MethodInstance does not exist.

3.1.4.15.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.15.1.1

BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_Input Message

The request WSDL message for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteDefaultValueForTypeDescriptor
```

The SOAP body contains the **DeleteDefaultValueForTypeDescriptor** element.

3.1.4.15.1.2

BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_Output Message

The response WSDL message for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.

The SOAP body contains the **DeleteDefaultValueForTypeDescriptorResponse** element.

3.1.4.15.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.15.2.1 DeleteDefaultValueForTypeDescriptor

The input data for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.

```
<xs:element name="DeleteDefaultValueForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element xmlns:q197="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q197:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The MetadataObjectId of the TypeDescriptor.

methodInstanceId: The MetadataObjectId of the MethodInstance.

partitionId: The partition (1) of the protocol client.

3.1.4.15.2.2 DeleteDefaultValueForTypeDescriptorResponse

The result data for the **DeleteDefaultValueForTypeDescriptor** WSDL operation.

```

<xs:element name="DeleteDefaultValueForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.15.3 Complex Types

None.

3.1.4.15.4 Simple Types

None.

3.1.4.15.5 Attributes

None.

3.1.4.15.6 Groups

None.

3.1.4.15.7 Attribute Groups

None.

3.1.4.16 DeleteNoCascade

The **DeleteNoCascade** operation deletes the specified MetadataObject without deleting the MetadataObjects it references.

```

<wsdl:operation name="DeleteNoCascade">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteNoCascade"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteNoCascadeResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFaul
    t_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_Faul
    tMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMes
    sage"/>

```



```

<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_
FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fau
ltMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMes
sage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject.
ConcurrentModificationExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject has been updated by a context other than the one by which it is currently being read. This happens when the specified object version is not equal to the current object version of the MetadataObject. For example, this error can be raised when one context reads the given MetadataObject, another context updates the same MetadataObject, and then the original

Error complex type	Condition
	context tries to update the same MetadataObject.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is an Entity, which, if active, MUST be deactivated before being deleted. An attempt was made to deactivate the Entity, but, at the time of the attempt, the Entity was no longer active.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a FilterDescriptor of type TimeStampFilter and is currently used in a MethodInstance of type ChangedIdEnumerator or DeletedIdEnumerator
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	<p>One of the following conditions:</p> <ul style="list-style-type: none"> ▪ The specified MetadataObject is an Entity that contains at least one of the following child objects: Action, Method, Identifier, or AssociationGroup. ▪ The specified MetadataObject is an LobSystem that contains at least one Entity. ▪ The specified MetadataObject is a Method that contains at least one of the following child objects: FilterDescriptor,

Error complex type	Condition
	<p>MethodInstance or Parameter.</p> <ul style="list-style-type: none"> The specified MetadataObject is a Parameter that contains at least one TypeDescriptor.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The operation cannot be performed because the specified MetadataObject is a TypeDescriptor and there is already at least one MethodInstance whose ReturnTypeDescriptor is the specified TypeDescriptor.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject cannot be deleted because it is either an active Entity or the child of an active Entity.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

Properties that are child objects of the specified MetadataObject MUST also be deleted. If the **MetadataObjectStruct** element specifies any of the MetadataObjects in the following table, the protocol server MUST perform the corresponding actions, in addition to deleting the specified MetadataObject from the metadata store.

MetadataObject	Action
Action	Delete all ActionParameters in the specified Action.
Entity	Delete all Action, Method, Identifier, and AssociationGroups that are child objects of the specified Entity, as well as all their child objects, in a recursive manner.
LobSystem	Delete all LobSystemInstances that are child objects of the specified LobSystem.
Method	Delete all MethodInstance, FilterDescriptor, and Parameters that are child objects of the specified Method, as well as all their child objects, in a recursive manner.
Parameter	Delete the root TypeDescriptor of the specified Parameter, as well as all the child objects of the root TypeDescriptor, in a recursive manner.
TypeDescriptor	Delete all the TypeDescriptors that are child objects of the specified TypeDescriptor, as well as all their child objects, in a recursive manner.

3.1.4.16.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.16.1.1 BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage

The request WSDL message for the **DeleteNoCascade** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteNoCascade
```

The SOAP body contains the **DeleteNoCascade** element.

3.1.4.16.1.2 BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage

The response WSDL message for the **DeleteNoCascade** WSDL operation.

The SOAP body contains the **DeleteNoCascadeResponse** element.

3.1.4.16.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.16.2.1 DeleteNoCascade

The input data for the **DeleteNoCascade** WSDL operation.

```
<xs:element name="DeleteNoCascade">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q78="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q78:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject that this operation MUST delete. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

3.1.4.16.2.2 DeleteNoCascadeResponse

The result data for the **DeleteNoCascade** WSDL operation.

```
<xs:element name="DeleteNoCascadeResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.16.3 Complex Types

None.

3.1.4.16.4 Simple Types

None.

3.1.4.16.5 Attributes

None.

3.1.4.16.6 Groups

None.

3.1.4.16.7 Attribute Groups

None.

3.1.4.17 DeleteProxyAssemblyForLobSystem

The **DeleteProxyAssemblyForLobSystem** operation deletes a Business Logic Module [28](#) associated with the specified LobSystem.

```
<wsdl:operation name="DeleteProxyAssemblyForLobSystem">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemResponse"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExceptionFault_FaultMessage"/>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcepti
onStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRa
ngeExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastucture)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified LobSystem, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.

3.1.4.17.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.17.1.1

BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage

The request WSDL message for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeleteProxyAssemblyForLobSystem

```

The SOAP body contains the **DeleteProxyAssemblyForLobSystem** element.

3.1.4.17.1.2

BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_Output Message

The response WSDL message for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

The SOAP body contains the **DeleteProxyAssemblyForLobSystemResponse** element.

3.1.4.17.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.17.2.1 DeleteProxyAssemblyForLobSystem

The input data for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

```
<xs:element name="DeleteProxyAssemblyForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q102="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="lobSystemStruct" type="q102:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The LobSystem for which the Business Logic Module [<29>](#) is to be deleted. The partition (1) of this LobSystem MUST be the partition (1) of the protocol client.

3.1.4.17.2.2 DeleteProxyAssemblyForLobSystemResponse

The result data for the **DeleteProxyAssemblyForLobSystem** WSDL operation.

```
<xs:element name="DeleteProxyAssemblyForLobSystemResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.17.3 Complex Types

None.

3.1.4.17.4 Simple Types

None.

3.1.4.17.5 Attributes

None.

3.1.4.17.6 Groups

None.

3.1.4.17.7 Attribute Groups

None.

3.1.4.18 EntityCreate

The **EntityCreate** operation creates an Entity in the specified LobSystem. The operation MUST copy access control entries from the specified LobSystem to the created Entity. If a Model is specified, the operation MUST associate the created Entity with the specified Model. Otherwise, the created Entity is not referenced by any Model.

```
<wsdl:operation name="EntityCreate">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreatePackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_EntityCreate_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_EntityCreate_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataCatalog in the protocol client partition (1).
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	At least one of the following is true: <ul style="list-style-type: none"> ▪ The namespace specified for the new Entity is NULL or empty. ▪ The length of the namespace specified for the new Entity is greater than 255 characters. ▪ The name specified for the new Entity is NULL or empty. ▪ The length of the name specified for the new Entity is greater than 255 characters.
ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)	The version specified for a new Entity is NULL.
DuplicateMetadataObjectExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the same name, namespace, version, and partition (1) already exists in the specified LobSystem.
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem already contains the

Error complex type	Condition
	implementation-specific maximum number of Entities.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist.

3.1.4.18.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.18.1.1 BusinessDataCatalogSharedService_EntityCreate_InputMessage

The request WSDL message for the **EntityCreate** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreate
```

The SOAP body contains the **EntityCreate** element.

3.1.4.18.1.2 BusinessDataCatalogSharedService_EntityCreate_OutputMessage

The response WSDL message for the **EntityCreate** WSDL operation.

The SOAP body contains the **EntityCreateResponse** element.

3.1.4.18.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.18.2.1 EntityCreate

The input data for the **EntityCreate** WSDL operation.

```
<xs:element name="EntityCreate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q132="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="rawValues" type="q132:EntityStruct"/>
      <xs:element xmlns:q133="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="lobSystemStruct" type="q133:LobSystemStruct"/>
      <xs:element xmlns:q134="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="modelStruct" nillable="true" type="q134:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawValues: The Entity to be created. The partition (1) of this Entity **MUST** be the partition (1) of the protocol client.

lobSystemStruct: The LobSystem in which the Entity is to be created. The partition (1) of this LobSystem MUST be the partition (1) of the protocol client.

modelStruct: The Model that references the created Entity. If the Model is NULL or its MetadataObjectId is set to zero, the protocol server MUST ignore it. Otherwise, the partition (1) of this Model MUST be the partition (1) of the protocol client.

3.1.4.18.2.2 EntityCreateResponse

The result data for the **EntityCreate** WSDL operation.

```
<xs:element name="EntityCreateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q135="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="EntityCreateResult" type="q135:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

EntityCreateResult: The created Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.18.3 Complex Types

None.

3.1.4.18.4 Simple Types

None.

3.1.4.18.5 Attributes

None.

3.1.4.18.6 Groups

None.

3.1.4.18.7 Attribute Groups

None.

3.1.4.19 ExportPackage

The **ExportPackage** operation retrieves an XML representation of the following objects from the metadata store:

- MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and access control entries, if "Model" value is set for the **packageContents** element. The XML MUST conform to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.1.
- Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the specified MetadataModel, if "Model" value is not set for the **packageContents**

element. The XML MUST conform to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.1.

If the `CameThroughRemoteAdminService` header specified in section 3.1 is present in the SOAP request, and if the specified `MetadataModel` contains `LobSystems` that the security principal (1) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those `LobSystems`, and MUST NOT contain other `MetadataObjects` contained by `MetadataObjects` that are not contained in the result for this reason.

```
<wsdl:operation name="ExportPackage">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ExportPackage_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_ExportPackage_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to export<30> the specified Model.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The packageContents element has the "InlineProxies" value set but does not have the "Model" value set.
ArgumentNullException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified Model is NULL.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified Model is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model or other MetadataObjects to be exported do not exist.

3.1.4.19.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.19.1.1 BusinessDataCatalogSharedService_ExportPackage_InputMessage

The request WSDL message for the **ExportPackage** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage
```

The SOAP body contains the **ExportPackage** element.

3.1.4.19.1.2 BusinessDataCatalogSharedService_ExportPackage_OutputMessage

The response WSDL message for the **ExportPackage** WSDL operation.

The SOAP body contains the **ExportPackageResponse** element.

3.1.4.19.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.19.2.1 ExportPackage

The input data for the **ExportPackage** WSDL operation.

```
<xs:element name="ExportPackage">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q64="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="modelStruct" type="q64:ModelStruct"/>
      <xs:element xmlns:q65="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q65:PackageContents"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelStruct: The Model. The partition (1) of this Model MUST be the partition (1) of the protocol client.

packageContents: Specifies the kind of data to retrieve for the specified Model. If the "Properties" value is specified, the protocol server MUST retrieve the Properties for the corresponding MetadataObjects from the specified Setting. If the "Model" value is also specified, the protocol server MUST also retrieve Properties from the default setting that do not have the same name as the Properties in the specified Setting. If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified MetadataModel. If the "LocalizedNames" value is specified, the protocol server MUST retrieve the localized names for the corresponding MetadataObjects from the specified Setting. If the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default Setting that do not have the same language code identifier (LCID) as the localized names in the specified Setting. If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified MetadataModel. If the "Permissions" value is specified, the protocol server MUST retrieve the access control entries for the corresponding MetadataObjects from the specified Setting. If there are no access control entries for the specified Setting for a MetadataObject and if "Model" value is also specified, the protocol server MUST retrieve access control entries from the default Setting for that MetadataObject. If the "Permissions" value is not specified, the protocol server MUST ignore access control entries in the specified MetadataModel.

settingId: The identifier of the Setting to use for retrieving Properties, localized names, and access control entries to export. If Properties, localized names, or access control entries are not exported, the protocol server MUST ignore the value of this element.

3.1.4.19.2.2 ExportPackageResponse

The result data for the **ExportPackage** WSDL operation.

```

<xs:element name="ExportPackageResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="ExportPackageResult" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

ExportPackageResult: The XML representation conforming to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) that contains the specified data for the MetadataModel.

3.1.4.19.3 Complex Types

None.

3.1.4.19.4 Simple Types

None.

3.1.4.19.5 Attributes

None.

3.1.4.19.6 Groups

None.

3.1.4.19.7 Attribute Groups

None.

3.1.4.20 GenerateProxyAssemblyForLobSystem

The **GenerateProxyAssemblyForLobSystem** operation forces the protocol server to create an implementation-specific Business Logic Module [31](#) for the specified LobSystem to connect to the LOB system described by the specified LobSystem. If a Business Logic Module is already available for the specified LobSystem, this operation MUST NOT create another Business Logic Module and MUST complete successfully.

```

<wsdl:operation name="GenerateProxyAssemblyForLobSystem">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystem"
    message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage"
  />
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemResponse"
    message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
  />
</wsdl:operation>

```

```

message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullE
xceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExcep
tionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionS
tateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExcep
tionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastucture)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified LobSystem, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero.

3.1.4.20.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.20.1.1

BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage

The request WSDL message for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GenerateProxyAssemblyForLobSystem
```

The SOAP body contains the **GenerateProxyAssemblyForLobSystem** element.

3.1.4.20.1.2

BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage

The response WSDL message for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

The SOAP body contains the **GenerateProxyAssemblyForLobSystemResponse** element.

3.1.4.20.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.20.2.1 GenerateProxyAssemblyForLobSystem

The input data for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

```
<xs:element name="GenerateProxyAssemblyForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q101="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="lobSystemStruct" type="q101:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The LobSystem.

3.1.4.20.2.2 GenerateProxyAssemblyForLobSystemResponse

The result data for the **GenerateProxyAssemblyForLobSystem** WSDL operation.

```
<xs:element name="GenerateProxyAssemblyForLobSystemResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.20.3 Complex Types

None.

3.1.4.20.4 Simple Types

None.

3.1.4.20.5 Attributes

None.

3.1.4.20.6 Groups

None.

3.1.4.20.7 Attribute Groups

None.

3.1.4.21 GetAccessControlEntries

The **GetAccessControlEntries** operation retrieves the access control entries for the specified MetadataObject from the specified Setting. If there are no access control entries for the specified MetadataObject from the specified Setting and the value of the **fallback** element is set to "TRUE", the protocol server MUST retrieve access control entries for the specified MetadataObject from the default Setting.

```
<wsdl:operation name="GetAccessControlEntries">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesResponse"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_FaultMessage"/>
```

```

<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFa
ult_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastucture)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.21.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.21.1.1

BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage

The request WSDL message for the **GetAccessControlEntries** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAccessControlEntries>

The SOAP body contains the **GetAccessControlEntries** element.

3.1.4.21.1.2

BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage

The response WSDL message for the **GetAccessControlEntries** WSDL operation.

The SOAP body contains the **GetAccessControlEntriesResponse** element.

3.1.4.21.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.21.2.1 **GetAccessControlEntries**

The input data for the **GetAccessControlEntries** WSDL operation.

```
<xs:element name="GetAccessControlEntries">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q27="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q27:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="fallback" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

settingId: The Setting from which to return the access control entries.

fallback: Specifies whether to retrieve access control entries from the default Setting if access control entries do not exist in the specified Setting.

3.1.4.21.2.2 **GetAccessControlEntriesResponse**

The result data for the **GetAccessControlEntries** WSDL operation.

```
<xs:element name="GetAccessControlEntriesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q28="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAccessControlEntriesResult" type="q28:ArrayOfAccessControlEntryStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAccessControlEntriesResult: The list of access control entries.

3.1.4.21.3 Complex Types

None.

3.1.4.21.4 Simple Types

None.

3.1.4.21.5 Attributes

None.

3.1.4.21.6 Groups

None.

3.1.4.21.7 Attribute Groups

None.

3.1.4.22 GetActionById

The **GetActionById** operation retrieves the specified Action.

```
<wsdl:operation name="GetActionById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById"
    message="tns:BusinessDataCatalogSharedService_GetActionById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetActionById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultM
essage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Action does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.22.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.22.1.1 BusinessDataCatalogSharedService_GetActionById_InputMessage

The request WSDL message for the **GetActionById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
ActionById

```

The SOAP body contains the **GetActionById** element.

3.1.4.22.1.2 BusinessDataCatalogSharedService_GetActionById_OutputMessage

The response WSDL message for the **GetActionById** WSDL operation.

The SOAP body contains the **GetActionByIdResponse** element.

3.1.4.22.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.22.2.1 GetActionById

The input data for the **GetActionById** WSDL operation.

```
<xs:element name="GetActionById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="actionId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q144="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q144:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

actionId: The MetadataObjectId of the Action.

performErrorCheck: The value of this element MUST be ignored by the protocol server if the specified Action exists. If the specified Action does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetActionByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.22.2.2 GetActionByIdResponse

The result data for the **GetActionById** WSDL operation.

```
<xs:element name="GetActionByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q145="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetActionByIdResult" nillable="true" type="q145:ActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionByIdResult: The Action. The partition (1) of this Action MUST be the partition (1) of the protocol client.

3.1.4.22.3 Complex Types

None.

3.1.4.22.4 Simple Types

None.

3.1.4.22.5 Attributes

None.

3.1.4.22.6 Groups

None.

3.1.4.22.7 Attribute Groups

None.

3.1.4.23 GetActionParameterById

The **GetActionParameterById** operation retrieves the specified ActionParameter.

```
<wsdl:operation name="GetActionParameterById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_GetActionParameterById_InputMessage request

message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage response

message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified ActionParameter does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.23.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.23.1.1

BusinessDataCatalogSharedService_GetActionParameterById_InputMessage

The request WSDL message for the **GetActionParameterById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById
```

The SOAP body contains the **GetActionParameterById** element.

3.1.4.23.1.2

BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage

The response WSDL message for the **GetActionParameterById** WSDL operation.

The SOAP body contains the **GetActionParameterByIdResponse** element.

3.1.4.23.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.23.2.1 GetActionParameterById

The input data for the **GetActionParameterById** WSDL operation.

```
<xs:element name="GetActionParameterById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="actionParameterId"
type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q148="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q148:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

actionParameterId: The MetadataObjectId of the ActionParameter.

performErrorCheck: The value of this element MUST be ignored by the protocol server if the specified ActionParameter exists. If the specified ActionParameter does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetActionParameterByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.23.2 GetActionParameterByIdResponse

The result data for the **GetActionParameterById** WSDL operation.

```
<xs:element name="GetActionParameterByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q149="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetActionParameterByIdResult" nillable="true" type="q149:ActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionParameterByIdResult: The ActionParameter. The partition (1) of this ActionParameter MUST be the partition (1) of the protocol client.

3.1.4.23.3 Complex Types

None.

3.1.4.23.4 Simple Types

None.

3.1.4.23.5 Attributes

None.

3.1.4.23.6 Groups

None.

3.1.4.23.7 Attribute Groups

None.

3.1.4.24 GetActionParametersForAction

The **GetActionParametersForAction** operation retrieves the ActionParameters of the specified Action.

```
<wsdl:operation name="GetActionParametersForAction">
```

```

    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForAction"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage"/>
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExcept
ionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRange
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateF
ault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionS
tateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"). <32>

Error complex type	Condition
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Action does not exist. <33>

3.1.4.24.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.24.1.1

BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage

The request WSDL message for the **GetActionParametersForAction** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction
```

The SOAP body contains the **GetActionParametersForAction** element.

3.1.4.24.1.2

BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage

The response WSDL message for the **GetActionParametersForAction** WSDL operation.

The SOAP body contains the **GetActionParametersForActionResponse** element.

3.1.4.24.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.24.2.1 GetActionParametersForAction

The input data for the **GetActionParametersForAction** WSDL operation.

```
<xs:element name="GetActionParametersForAction">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="actionId" type="xs:unsignedInt"/>
      <xs:element xmlns:q150="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q150:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

actionId: The MetadataObjectId of the Action.

partitionId: The partition (1) of the protocol client.

3.1.4.24.2.2 GetActionParametersForActionResponse

The result data for the **GetActionParametersForAction** WSDL operation.

```
<xs:element name="GetActionParametersForActionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q151="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetActionParametersForActionResult" type="q151:ArrayOfActionParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionParametersForActionResult: The list of ActionParameters that are contained by the specified Action. The partition (1) of these ActionParameters MUST be the partition (1) of the protocol client.

3.1.4.24.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.24.3.1 ArrayOfActionParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActionParameterStruct** complex type contains a list of **ActionParameters**.

```
<xs:complexType name="ArrayOfActionParameterStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="tns:ActionParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

ActionParameterStruct: An ActionParameter of an Action.

3.1.4.24.4 Simple Types

None.

3.1.4.24.5 Attributes

None.

3.1.4.24.6 Groups

None.

3.1.4.24.7 Attribute Groups

None.

3.1.4.25 GetActionsForEntity

The **GetActionsForEntity** operation retrieves the Actions of the specified Entity.

```
<wsdl:operation name="GetActionsForEntity">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityResponse"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist. <34>

3.1.4.25.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.25.1.1

BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage

The request WSDL message for the **GetActionsForEntity** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntity
```

The SOAP body contains the **GetActionsForEntity** element.

3.1.4.25.1.2

BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage

The response WSDL message for the **GetActionsForEntity** WSDL operation.

The SOAP body contains the **GetActionsForEntityResponse** element.

3.1.4.25.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.25.2.1 GetActionsForEntity

The input data for the **GetActionsForEntity** WSDL operation.

```
<xs:element name="GetActionsForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:q146="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q146:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The MetadataObjectId of the Entity.

partitionId: The partition (1) of the protocol client.

3.1.4.25.2.2 GetActionsForEntityResponse

The result data for the **GetActionsForEntity** WSDL operation.

```
<xs:element name="GetActionsForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q147="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetActionsForEntityResult" type="q147:ArrayOfActionStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetActionsForEntityResult: The list of Actions that are contained by the specified Entity. The partition (1) of each of these Actions MUST be the partition (1) of the protocol client.

3.1.4.25.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.25.3.1 ArrayOfActionStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfActionStruct** complex type contains a list of Actions.

```
<xs:complexType name="ArrayOfActionStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="tns:ActionStruct"/>
  </xs:sequence>
</xs:complexType>
```

ActionStruct: An Action of an Entity.

3.1.4.25.4 Simple Types

None.

3.1.4.25.5 Attributes

None.

3.1.4.25.6 Groups

None.

3.1.4.25.7 Attribute Groups

None.

3.1.4.26 GetAllLocalizedNames

The **GetAllLocalizedNames** operation retrieves all localized names of the specified **MetadataObject**.

```
<wsdl:operation name="GetAllLocalizedNames">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_Fau
ltMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fau
ltMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist. <35>

3.1.4.26.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.26.1.1

BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage

The request WSDL message for the **GetAllLocalizedNames** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNames
```

The SOAP body contains the **GetAllLocalizedNames** element.

3.1.4.26.1.2

BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage

The response WSDL message for the **GetAllLocalizedNames** WSDL operation.

The SOAP body contains the **GetAllLocalizedNamesResponse** element.

3.1.4.26.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.26.2.1 GetAllLocalizedNames

The input data for the **GetAllLocalizedNames** WSDL operation.

```
<xs:element name="GetAllLocalizedNames">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:q14="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q14:guid"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectId: The MetadataObjectId of the MetadataObject.

partitionId: The partition (1) of the protocol client.

settingId: The Setting from which to return the localized names.

merged: Specifies whether the default Setting is to be considered in the operation when the *settingId* parameter is not NULL. The value MUST one of those in the following table.

Value	Description
True	The protocol server MUST include the localized names from the default Setting and the specified Setting. If a localized name for a given LCID exists for both the default Setting and the specified Setting, only the localized name from the specified Setting MUST be returned.
False	The protocol server MUST return the localized names only for the specified Setting.

3.1.4.26.2.2 GetAllLocalizedNamesResponse

The result data for the **GetAllLocalizedNames** WSDL operation.

```
<xs:element name="GetAllLocalizedNamesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q15="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAllLocalizedNamesResult" type="q15:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllLocalizedNamesResult: The list of localized names of the specified MetadataObject.

3.1.4.26.3 Complex Types

None.

3.1.4.26.4 Simple Types

None.

3.1.4.26.5 Attributes

None.

3.1.4.26.6 Groups

None.

3.1.4.26.7 Attribute Groups

None.

3.1.4.27 GetAllLocalizedNamesForMetadataObjectStruct

The **GetAllLocalizedNamesForMetadataObjectStruct** operation retrieves all localized names of the specified MetadataObject for the specified Setting.

```

<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructResponse"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObject_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObject_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist. <36>

3.1.4.27.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.27.1.1

BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessage

The request WSDL message for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllLocalizedNamesForMetadataObjectStruct
```

The SOAP body contains the **GetAllLocalizedNamesForMetadataObjectStruct** element.

3.1.4.27.1.2

BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMessage

The response WSDL message for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

The SOAP body contains the **GetAllLocalizedNamesForMetadataObjectStructResponse** element.

3.1.4.27.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.27.2.1 GetAllLocalizedNamesForMetadataObjectStruct

The input data for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

```
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q12="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q12:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:complexType>
  </xs:element>

```

metadataObjectStruct: The MetadataObject for which the operation MUST return the localized names. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

settingId: The Setting from which to return the localized names.

merged: Specifies whether the default Setting is to be considered in the operation if the *settingId* parameter is not NULL. The value MUST be one of those in the following table.

Value	Description
True	The protocol server MUST include a localized name from the default Setting if a localized name with the same language code identifier (LCID) does not exist for the specified Setting.
False	The protocol server MUST return the localized names only for the specified Setting.

3.1.4.27.2.2 GetAllLocalizedNamesForMetadataObjectStructResponse

The result data for the **GetAllLocalizedNamesForMetadataObjectStruct** WSDL operation.

```

<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q13="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAllLocalizedNamesForMetadataObjectStructResult"
type="q13:ArrayOfLocalizedNameStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAllLocalizedNamesForMetadataObjectStructResult: The list of localized names of the specified MetadataObject.

3.1.4.27.3 Complex Types

None.

3.1.4.27.4 Simple Types

None.

3.1.4.27.5 Attributes

None.

3.1.4.27.6 Groups

None.

3.1.4.27.7 Attribute Groups

None.

3.1.4.28 GetAllPartitionIds

The **GetAllPartitionIds** operation retrieves all distinct partition (1) identifiers.

```
<wsdl:operation name="GetAllPartitionIds">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsResponse"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage response message.

3.1.4.28.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.28.1.1

BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage

The request WSDL message for the **GetAllPartitionIds** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPartitionIds
```

The SOAP body contains the **GetAllPartitionIds** element.

3.1.4.28.1.2

BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage

The response WSDL message for the **GetAllPartitionIds** WSDL operation.

The SOAP body contains the **GetAllPartitionIdsResponse** element.

3.1.4.28.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.28.2.1 GetAllPartitionIds

The input data for the **GetAllPartitionIds** WSDL operation.

```
<xs:element name="GetAllPartitionIds">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.28.2.2 GetAllPartitionIdsResponse

The result data for the **GetAllPartitionIds** WSDL operation.

```
<xs:element name="GetAllPartitionIdsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="GetAllPartitionIdsResult" type="q2:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllPartitionIdsResult: The list of partition (1) identifiers.

3.1.4.28.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.28.3.1 ArrayOfguid

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

A complex type that specifies a list of **GUIDs**.

```
<xs:complexType name="ArrayOfguid">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

guid: The identifier of a partition (1).

3.1.4.28.4 Simple Types

None.

3.1.4.28.5 Attributes

None.

3.1.4.28.6 Groups

None.

3.1.4.28.7 Attribute Groups

None.

3.1.4.29 GetAllProperties

The **GetAllProperties** operation retrieves all Properties of the specified MetadataObject and the specified Setting.

```
<wsdl:operation name="GetAllProperties">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesResponse"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAllProperties_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAllProperties_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, the MetadataObject is a LobSystem or LobSystemInstance, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.29.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.29.1.1 BusinessDataCatalogSharedService_GetAllProperties_InputMessage

The request WSDL message for the **GetAllProperties** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAllProperties

```

The SOAP body contains the **GetAllProperties** element.

3.1.4.29.1.2

BusinessDataCatalogSharedService_GetAllProperties_OutputMessage

The response WSDL message for the **GetAllProperties** WSDL operation.

The SOAP body contains the **GetAllPropertiesResponse** element.

3.1.4.29.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.29.2.1 GetAllProperties

The input data for the **GetAllProperties** WSDL operation.

```
<xs:element name="GetAllProperties">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element xmlns:q18="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q18:guid"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectId: The MetadataObjectId of the MetadataObject.

partitionId: The partition (1) of the protocol client.

settingId: The Setting from which to return the Properties.

merged: The value MUST be ignored by the protocol server if no Setting is specified. If a Setting is specified, the value of this element MUST be set to TRUE for the Properties in the default Setting to be returned in addition to the Properties in the specified Setting. Otherwise, the value MUST be set to FALSE. If this value is set to TRUE, a Setting is specified and a Property with the same name is found in both the specified Setting and the default Setting, then the Property from the specified Setting MUST be retrieved by the protocol server, and the Property from the default Setting MUST be ignored by the protocol server.

3.1.4.29.2.2 GetAllPropertiesResponse

The result data for the **GetAllProperties** WSDL operation.

```
<xs:element name="GetAllPropertiesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q19="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAllPropertiesResult" type="q19:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAllPropertiesResult: The list of Properties.

3.1.4.29.3 Complex Types

None.

3.1.4.29.4 Simple Types

None.

3.1.4.29.5 Attributes

None.

3.1.4.29.6 Groups

None.

3.1.4.29.7 Attribute Groups

None.

3.1.4.30 GetAllPropertiesForMetadataObjectStruct

The **GetAllPropertiesForMetadataObjectStruct** operation retrieves all Properties of the specified MetadataObject from the specified Setting.

```
<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
    message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMe
ssage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"
    message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputM
essage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invalid
OperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExce
ptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metadat
aExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
    name="ArgumentExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMess
age** request message, and the protocol server MUST respond with a
**BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMes
sage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, the MetadataObject is a LobSystem or LobSystemInstance, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.30.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.30.1.1

**BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_In
putMessage**

The request WSDL message for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
AllPropertiesForMetadataObjectStruct

```

The SOAP body contains the **GetAllPropertiesForMetadataObjectStruct** element.

3.1.4.30.1.2

BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage

The response WSDL message for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.

The SOAP body contains the **GetAllPropertiesForMetadataObjectStructResponse** element.

3.1.4.30.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.30.2.1 GetAllPropertiesForMetadataObjectStruct

The input data for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.

```
<xs:element name="GetAllPropertiesForMetadataObjectStruct">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q16="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q16:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

settingId: The Setting from which to return the Properties.

merged: The value MUST be ignored by the protocol server if no Setting is specified. If a Setting is specified, the value of this element MUST be set to "TRUE" for the Properties in the default Setting to be returned in addition to the Properties in the specified Setting. Otherwise, the value MUST be set to "FALSE". If this value is set to "TRUE", a Setting is specified, and a Property with the same name is found in both the specified Setting and the default Setting, the Property from the specified Setting MUST be retrieved by the protocol server, and the Property from the default Setting MUST be ignored by the protocol server.

3.1.4.30.2.2 GetAllPropertiesForMetadataObjectStructResponse

The result data for the **GetAllPropertiesForMetadataObjectStruct** WSDL operation.

```
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q17="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAllPropertiesForMetadataObjectStructResult" type="q17:ArrayOfPropertyStruct"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

GetAllPropertiesForMetadataObjectStructResult: The list of Properties.

3.1.4.30.3 Complex Types

None.

3.1.4.30.4 Simple Types

None.

3.1.4.30.5 Attributes

None.

3.1.4.30.6 Groups

None.

3.1.4.30.7 Attribute Groups

None.

3.1.4.31 GetAssociationById

The **GetAssociationById** operation retrieves the Association with the specified MetadataObjectId.

```
<wsdl:operation name="GetAssociationById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Association with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.31.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.31.1.1

BusinessDataCatalogSharedService_GetAssociationById_InputMessage

The request WSDL message for the **GetAssociationById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationById

```

The SOAP body contains the **GetAssociationById** element.

3.1.4.31.1.2

BusinessDataCatalogSharedService_GetAssociationById_OutputMessage

The response WSDL message for the **GetAssociationById** WSDL operation.

The SOAP body contains the **GetAssociationByIdResponse** element.

3.1.4.31.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.31.2.1 GetAssociationById

The input data for the **GetAssociationById** WSDL operation.

```
<xs:element name="GetAssociationById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q213="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q213:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The MetadataObjectId of the Association.

performErrorCheck: The value MUST be ignored by the protocol server if an Association with the specified MetadataObjectId exists. If an Association with the specified MetadataObjectId does not exist and the value of this element is set to FALSE, the protocol server MUST set the value of the **GetAssociationByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.31.2.2 GetAssociationByIdResponse

The result data for the **GetAssociationById** WSDL operation.

```
<xs:element name="GetAssociationByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q214="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetAssociationByIdResult" type="q214:AssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationByIdResult: The Association. The partition (1) of this Association MUST be the partition (1) of the protocol client.

3.1.4.31.3 Complex Types

None.

3.1.4.31.4 Simple Types

None.

3.1.4.31.5 Attributes

None.

3.1.4.31.6 Groups

None.

3.1.4.31.7 Attribute Groups

None.

3.1.4.32 GetAssociationGroupId

The **GetAssociationGroupId** operation retrieves the AssociationGroup with the specified MetadataObjectId.

```
<wsdl:operation name="GetAssociationGroupId">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupId"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationGroupId_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
```

</wsdl:operation>

The protocol client sends a

BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An AssociationGroup with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.32.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.32.1.1

BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage

The request WSDL message for the **GetAssociationGroupById** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupById`

The SOAP body contains the **GetAssociationGroupById** element.

3.1.4.32.1.2

BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage

The response WSDL message for the **GetAssociationGroupById** WSDL operation.

The SOAP body contains the **GetAssociationGroupByIdResponse** element.

3.1.4.32.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.32.2.1 GetAssociationGroupById

The input data for the **GetAssociationGroupById** WSDL operation.

```
<xs:element name="GetAssociationGroupById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="associationGroupId"
type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q226="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q226:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationGroupId: The MetadataObjectId of the AssociationGroup.

performErrorCheck: The value MUST be ignored by the protocol server if an AssociationGroup with the specified MetadataObjectId exists. If AssociationGroup with the specified MetadataObjectId does not exist and the value of this element is set to FALSE, the protocol server MUST set the value of the **GetAssociationGroupByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.32.2.2 GetAssociationGroupByIdResponse

The result data for the **GetAssociationGroupById** WSDL operation.

```
<xs:element name="GetAssociationGroupByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q227="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetAssociationGroupByIdResult" nillable="true" type="q227:AssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetAssociationGroupByIdResult: The AssociationGroup. The partition (1) of this AssociationGroup MUST be the partition (1) of the protocol client.

3.1.4.32.3 Complex Types

None.

3.1.4.32.4 Simple Types

None.

3.1.4.32.5 Attributes

None.

3.1.4.32.6 Groups

None.

3.1.4.32.7 Attribute Groups

None.

3.1.4.33 GetAssociationGroupsForEntity

The **GetAssociationGroupsForEntity** operation retrieves the AssociationGroups of the Entity with the specified MetadataObjectId.

```
<wsdl:operation name="GetAssociationGroupsForEntity">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataException
StateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentException
Fault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionState
Fault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage** request

message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"). <37>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified MetadataObjectId does not exist. <38>

3.1.4.33.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.33.1.1

BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage

The request WSDL message for the **GetAssociationGroupsForEntity** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationGroupsForEntity
```

The SOAP body contains the **GetAssociationGroupsForEntity** element.

3.1.4.33.1.2

BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage

The response WSDL message for the **GetAssociationGroupsForEntity** WSDL operation.

The SOAP body contains the **GetAssociationGroupsForEntityResponse** element.

3.1.4.33.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.33.2.1 **GetAssociationGroupsForEntity**

The input data for the **GetAssociationGroupsForEntity** WSDL operation.

```
<xs:element name="GetAssociationGroupsForEntity">
  <xs:complexType>
    <xs:sequence>
```

```

        <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"/>
        <xs:element xmlns:q228="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q228:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

entityId: The MetadataObjectId of the Entity.

partitionId: The partition (1) of the protocol client.

3.1.4.33.2.2 GetAssociationGroupsForEntityResponse

The result data for the **GetAssociationGroupsForEntity** WSDL operation.

```

<xs:element name="GetAssociationGroupsForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q229="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAssociationGroupsForEntityResult" type="q229:ArrayOfAssociationGroupStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationGroupsForEntityResult: The list of AssociationGroups. The partition (1) of each AssociationGroup in the list MUST be the partition (1) of the protocol client.

3.1.4.33.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.33.3.1 ArrayOfAssociationGroupStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationGroupStruct** complex type contains a list of AssociationGroups.

```

<xs:complexType name="ArrayOfAssociationGroupStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="tns:AssociationGroupStruct"/>
  </xs:sequence>
</xs:complexType>

```

AssociationGroupStruct: An AssociationGroup.

3.1.4.33.4 Simple Types

None.

3.1.4.33.5 Attributes

None.

3.1.4.33.6 Groups

None.

3.1.4.33.7 Attribute Groups

None.

3.1.4.34 GetAssociationMembersInRole

The **GetAssociationMembersInRole** operation retrieves the source or destination Entities of the specified Association.

```
<wsdl:operation name="GetAssociationMembersInRole">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionSt
ateFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage** request

message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"), or the value of the role parameter is not zero ("0") or "1".
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Association does not exist, or does not refer to any Entities.

3.1.4.34.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.34.1.1

BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage

The request WSDL message for the **GetAssociationMembersInRole** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationMembersInRole
```

The SOAP body contains the **GetAssociationMembersInRole** element.

3.1.4.34.1.2

BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage

The response WSDL message for the **GetAssociationMembersInRole** WSDL operation.

The SOAP body contains the **GetAssociationMembersInRoleResponse** element.

3.1.4.34.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.34.2.1 **GetAssociationMembersInRole**

The input data for the **GetAssociationMembersInRole** WSDL operation.

```
<xs:element name="GetAssociationMembersInRole">
  <xs:complexType>
    <xs:sequence>
```

```

        <xs:element minOccurs="1" maxOccurs="1" name="associationId" type="xs:unsignedInt"/>
        <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte"/>
        <xs:element xmlns:q221="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q221:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

associationId: The MetadataObjectId of the Association.

role: A bit that specifies whether to return source or destination Entities from the Association. The following table describes possible values.

Value	Description
0	Only source Entities are returned.
1	Only destination Entities are returned.

partitionId: The partition (1) of the protocol client.

3.1.4.34.2.2 GetAssociationMembersInRoleResponse

The result data for the **GetAssociationMembersInRole** WSDL operation.

```

<xs:element name="GetAssociationMembersInRoleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q222="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAssociationMembersInRoleResult" type="q222:ArrayOfAssociationMemberStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationMembersInRoleResult: The list of source or destination Entities.

3.1.4.34.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.34.3.1 ArrayOfAssociationMemberStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationMemberStruct** complex type contains a list of relationship between Entities and Associations.

```

<xs:complexType name="ArrayOfAssociationMemberStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="tns:AssociationMemberStruct"/>
  </xs:sequence>
</xs:complexType>

```

AssociationMemberStruct: Contains information about the relationship between an Entity and an Association.

3.1.4.34.3.2 AssociationMemberStruct

Namespace: Microsoft.SharePoint.BusinessData

The **AssociationMemberStruct** complex type contains information about the relationship between an Entity and an Association.

```
<xs:complexType name="AssociationMemberStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="role" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
```

_entityName: The name of the Entity that is referenced by the Association. If the Entity is active, the value MUST be NULL. Otherwise, this value MUST have at least 1 and at most 255 Unicode characters.

_entityNamespace: The namespace of the Entity that is referenced by the Association. If the Entity is active, the value MUST be NULL. Otherwise, the value MUST have at least 1 and at most 255 Unicode characters.

associationId: The MetadataObjectId of the Association referencing the Entity. The value of this element MUST be in the range from 1 through 0x7fffffff.

entityId: The MetadataObjectId of the Entity that is referenced by the Association. If the Entity is active, the value MUST be in the range from 1 through 0x7fffffff. Otherwise, the value MUST be zero.

partitionId: The partition (1) of the Association.

role: Specifies whether the Entity is a source or the destination of the Association. The following table describes possible values.

Value	Description
0	The Entity is a source of the Association.
1	The Entity is the destination of the Association.

3.1.4.34.4 Simple Types

None.

3.1.4.34.5 Attributes

None.

3.1.4.34.6 Groups

None.

3.1.4.34.7 Attribute Groups

None.

3.1.4.35 GetAssociationReferencesForAssociationGroup

The **GetAssociationReferencesForAssociationGroup** operation retrieves the AssociationReferences contained by the specified AssociationGroup.

```
<wsdl:operation name="GetAssociationReferencesForAssociationGroup">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Input Message** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFound ExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified AssociationGroup does not exist. <39>

3.1.4.35.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.35.1.1

BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessage

The request WSDL message for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationReferencesForAssociationGroup>

The SOAP body contains the **GetAssociationReferencesForAssociationGroup** element.

3.1.4.35.1.2

BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMessage

The response WSDL message for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

The SOAP body contains the **GetAssociationReferencesForAssociationGroupResponse** element.

3.1.4.35.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.35.2.1 GetAssociationReferencesForAssociationGroup

The input data for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

```

<xs:element name="GetAssociationReferencesForAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="associationGroupId"
type="xs:unsignedInt"/>
      <xs:element xmlns:q230="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q230:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

associationGroupId: The MetadataObjectId of the AssociationGroup.

partitionId: The partition (1) of the protocol client.

3.1.4.35.2.2 GetAssociationReferencesForAssociationGroupResponse

The result data for the **GetAssociationReferencesForAssociationGroup** WSDL operation.

```

<xs:element name="GetAssociationReferencesForAssociationGroupResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q231="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAssociationReferencesForAssociationGroupResult"
type="q231:ArrayOfAssociationReferenceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationReferencesForAssociationGroupResult: The list of AssociationReferences. The partition (1) of each AssociationReference in the list MUST be the partition (1) of the protocol client.

3.1.4.35.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.35.3.1 ArrayOfAssociationReferenceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfAssociationReferenceStruct** complex type contains a list of AssociationReferences.

```

<xs:complexType name="ArrayOfAssociationReferenceStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="tns:AssociationReferenceStruct"/>
  </xs:sequence>
</xs:complexType>

```

AssociationReferenceStruct: An AssociationReference.

3.1.4.35.4 Simple Types

None.

3.1.4.35.5 Attributes

None.

3.1.4.35.6 Groups

None.

3.1.4.35.7 Attribute Groups

None.

3.1.4.36 GetAssociationsForDataClass

The **GetAssociationsForDataClass** operation retrieves the Associations that are contained by the specified DataClass.

```
<wsdl:operation name="GetAssociationsForDataClass">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClassInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>
```

</wsdl:operation>

The protocol client sends a

BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist. <40>

3.1.4.36.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.36.1.1

BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage

The request WSDL message for the **GetAssociationsForDataClass** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForDataClass`

The SOAP body contains the **GetAssociationsForDataClass** element.

3.1.4.36.1.2

BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage

The response WSDL message for the **GetAssociationsForDataClass** WSDL operation.

The SOAP body contains the **GetAssociationsForDataClassResponse** element.

3.1.4.36.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.36.2.1 GetAssociationsForDataClass

The input data for the **GetAssociationsForDataClass** WSDL operation.


```

<xs:element name="GetAssociationsForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:q217="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q217:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

dataClassId: The MetadataObjectId of the DataClass. The value of this element MUST be in the range from 1 through 0x7fffffff.

partitionId: The partition (1) of the protocol client.

3.1.4.36.2.2 GetAssociationsForDataClassResponse

The result data for the **GetAssociationsForDataClass** WSDL operation.

```

<xs:element name="GetAssociationsForDataClassResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q218="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAssociationsForDataClassResult" type="q218:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationsForDataClassResult: The list of Associations. The partition (1) of each of these Associations MUST be the partition (1) of the protocol client.

3.1.4.36.3 Complex Types

None.

3.1.4.36.4 Simple Types

None.

3.1.4.36.5 Attributes

None.

3.1.4.36.6 Groups

None.

3.1.4.36.7 Attribute Groups

None.

3.1.4.37 GetAssociationsForEntityAndRole

The **GetAssociationsForEntityAndRole** operation retrieves the Associations that reference the specified Entity as Association source or Association destination.

```
<wsdl:operation name="GetAssociationsForEntityAndRole">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST return with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"), or the role parameter is not set to zero ("0") or "1".
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist.

3.1.4.37.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.37.1.1

BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage

The request WSDL message for the **GetAssociationsForEntityAndRole** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForEntityAndRole
```

The SOAP body contains the **GetAssociationsForEntityAndRole** element.

3.1.4.37.1.2

BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage

The response WSDL message for the **GetAssociationsForEntityAndRole** WSDL operation.

The SOAP body contains the **GetAssociationsForEntityAndRoleResponse** element.

3.1.4.37.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.37.2.1 GetAssociationsForEntityAndRole

The input data for the **GetAssociationsForEntityAndRole** WSDL operation.

```
<xs:element name="GetAssociationsForEntityAndRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:q215="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q215:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:complexType>
  </xs:element>

```

entityId: The MetadataObjectId of the Entity.

role: Specifies whether the Entity is a source or the destination of the Association. The following table describes possible values.

Value	Description
0	The Entity is a source of the Association.
1	The Entity is the destination of the Association.

activeOnly: Specifies whether to include the Associations that reference Entities those are not active in the result. For the purposes of this operation, an Association is considered to reference an Entity when that Entity is a source or the destination of the Association, or when the Entity contains the Association. The following table describes possible values.

Value	Description
True	Return all Associations that match the search criteria.
False	Return Associations that match the search criteria only if they do not reference an Entity that is not active.

partitionId: The partition (1) of the protocol client.

3.1.4.37.2.2 GetAssociationsForEntityAndRoleResponse

The result data for the **GetAssociationsForEntityAndRole** WSDL operation.

```

<xs:element name="GetAssociationsForEntityAndRoleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q216="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAssociationsForEntityAndRoleResult" type="q216:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationsForEntityAndRoleResult: The list of Associations. The partition (1) of each of these Associations MUST be the partition (1) of the protocol client.

3.1.4.37.3 Complex Types

None.

3.1.4.37.4 Simple Types

None.

3.1.4.37.5 Attributes

None.

3.1.4.37.6 Groups

None.

3.1.4.37.7 Attribute Groups

None.

3.1.4.38 GetAssociationsForMethod

The **GetAssociationsForMethod** operation retrieves the Associations that are contained by the specified Method.

```
<wsdl:operation name="GetAssociationsForMethod">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodResponse"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```

</wsdl:operation>

The protocol client sends a

BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Method does not exist. <41>

3.1.4.38.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.38.1.1

BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage

The request WSDL message for the **GetAssociationsForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetAssociationsForMethod
```

The SOAP body contains the **GetAssociationsForMethod** element.

3.1.4.38.1.2

BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage

The response WSDL message for the **GetAssociationsForMethod** WSDL operation.

The SOAP body contains the **GetAssociationsForMethodResponse** element.

3.1.4.38.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.38.2.1 **GetAssociationsForMethod**

The input data for the **GetAssociationsForMethod** WSDL operation.

```
<xs:element name="GetAssociationsForMethod">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt"/>
    <xs:element xmlns:q219="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q219:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

methodId: The MetadataObjectId of the Method. The value of this element MUST be in the range from 1 through 0x7fffffff.

partitionId: The partition (1) of the protocol client.

3.1.4.38.2.2 GetAssociationsForMethodResponse

The result data for the **GetAssociationsForMethod** WSDL operation.

```

<xs:element name="GetAssociationsForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q220="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetAssociationsForMethodResult" type="q220:ArrayOfAssociationStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetAssociationsForMethodResult: The list of Associations. The partition (1) of each of these Associations MUST be the partition (1) of the protocol client.

3.1.4.38.3 Complex Types

None.

3.1.4.38.4 Simple Types

None.

3.1.4.38.5 Attributes

None.

3.1.4.38.6 Groups

None.

3.1.4.38.7 Attribute Groups

None.

3.1.4.39 GetCacheInvalidationRecordsSince

The **GetCacheInvalidationRecordsSince** operation retrieves the cache version stamps that were modified after the specified time.

```

<wsdl:operation name="GetCacheInvalidationRecordsSince">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSince"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"/
>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceResponse"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedEx
ceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionSt
ateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperati
onExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcept
ionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatE
xceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExcept
ionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullEx
ceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfR
angeExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a
BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage

request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage** response message.

3.1.4.39.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.39.1.1

BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage

The request WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetCacheInvalidationRecordsSince
```

The SOAP body contains the **GetCacheInvalidationRecordsSince** element.

3.1.4.39.1.2

BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage

The response WSDL message for the **GetCacheInvalidationRecordsSince** WSDL operation.

The SOAP body contains the **GetCacheInvalidationRecordsSinceResponse** element.

3.1.4.39.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.39.2.1 GetCacheInvalidationRecordsSince

The input data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```
<xs:element name="GetCacheInvalidationRecordsSince">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="dateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dateTime: The implementation-specific timestamp to compare with the timestamp elements of the cache version stamps. This operation MUST return only cache version stamps with timestamp values greater than the specified value.

3.1.4.39.2.2 GetCacheInvalidationRecordsSinceResponse

The result data for the **GetCacheInvalidationRecordsSince** WSDL operation.

```

<xs:element name="GetCacheInvalidationRecordsSinceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q52="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetCacheInvalidationRecordsSinceResult"
type="q52:ArrayOfCacheInvalidationRecordStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetCacheInvalidationRecordsSinceResult: The list of cache version stamps. The partition (1) of each of these cache version stamps MUST be the partition (1) of the protocol client.

3.1.4.39.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.39.3.1 ArrayOfCacheInvalidationRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfCacheInvalidationRecordStruct** complex type contains a list of cache version stamps.

```

<xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="CacheInvalidationRecordStruct"
nillable="true" type="tns:CacheInvalidationRecordStruct"/>
  </xs:sequence>
</xs:complexType>

```

CacheInvalidationRecordStruct: A cache version stamp.

3.1.4.39.3.2 CacheInvalidationRecordStruct

Namespace: Microsoft.SharePoint.BusinessData

The **CacheInvalidationRecordStruct** complex type MUST contain information about the version stamps for the cache. Each row in the result set MUST represent object cache version stamp for the contents or existence of a type of MetadataObject specified by its **CacheLine** element. This complex type is defined as follows.

```

<xs:complexType name="CacheInvalidationRecordStruct">
  <xs:sequence>
    <xs:element minOccurs="0" name="cacheLine" type="xs:long"/>
    <xs:element minOccurs="0" name="counter" type="xs:int"/>
    <xs:element minOccurs="0" name="partitionId" type="ser:guid"/>
    <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>

```

cacheLine: Specifies that the information in the cache corresponds either to the contents or to the relationship to a type of MetadataObject. It MUST consist of one or more of the bit masks of the values from the following table.

Value	Description
0x00001	Corresponds to the contents of a LobSystem.
0x00002	Corresponds to the contents of a LobSystemInstance.
0x00004	Corresponds to the contents of a DataClass.
0x00008	Corresponds to the contents of an Entity.
0x00010	Corresponds to the contents of an Identifier.
0x00020	Corresponds to the contents of a Method.
0x00040	Corresponds to the contents of a MethodInstance.
0x00080	Corresponds to the contents of a FilterDescriptor.
0x00100	Corresponds to the contents of a Parameter.
0x00200	Corresponds to the contents of a TypeDescriptor.
0x00400	Corresponds to the contents of an Action.
0x00800	Corresponds to the contents of an ActionParameter.
0x01000	Corresponds to the contents of an Association.
0x08000	Corresponds to the contents of an AssociationGroup.
0x10000	Corresponds to the contents of a MetadataCatalog.
0x000100000	Corresponds to the relationship to a LobSystem.
0x000200000	Corresponds to the relationship to a LobSystemInstance.
0x000400000	Corresponds to the relationship to a DataClass.
0x000800000	Corresponds to the relationship to an Entity.
0x001000000	Corresponds to the relationship to an Identifier.
0x002000000	Corresponds to the relationship to a Method.
0x004000000	Corresponds to the relationship to a MethodInstance.
0x008000000	Corresponds to the relationship to a FilterDescriptor.
0x010000000	Corresponds to the relationship to a Parameter.
0x020000000	Corresponds to the relationship to a TypeDescriptor.
0x040000000	Corresponds to the relationship to an Action.
0x080000000	Corresponds to the relationship to an ActionParameter.
0x100000000	Corresponds to the relationship to an Association.
0x200000000	Corresponds to the relationship to an AssociationGroup.
0x400000000	Corresponds to the relationship to a MetadataObject.


```

edService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntNullExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Argume
ntOutOfRangeExceptionExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_Metada
taExceptionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor does not exist. <42>

3.1.4.40.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.40.1.1

BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage

The request WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor>

The SOAP body contains the **GetChildTypeDescriptorsForTypeDescriptor** element.

3.1.4.40.1.2

BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage

The response WSDL message for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetChildTypeDescriptorsForTypeDescriptorResponse** element.

3.1.4.40.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.40.2.1 **GetChildTypeDescriptorsForTypeDescriptor**

The input data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="parentTypeDescriptorId"
type="xs:unsignedInt"/>
      <xs:element xmlns:q189="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q189:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parentTypeDescriptorId: The MetadataObjectId of the TypeDescriptor.

partitionId: The partition (1) of the protocol client.

3.1.4.40.2.2 **GetChildTypeDescriptorsForTypeDescriptorResponse**

The result data for the **GetChildTypeDescriptorsForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q190="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetChildTypeDescriptorsForTypeDescriptorResult"
type="q190:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChildTypeDescriptorsForTypeDescriptorResult: The list of TypeDescriptors. The partition (1) of each TypeDescriptor MUST be the partition (1) of the protocol client.


```

edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentNullExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified TypeDescriptor is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor does not exist. <44>

3.1.4.41.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.41.1.1

BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage

The request WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
ChildTypeDescriptorsWithIdentifiersForTypeDescriptor

```


The SOAP body contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** element.

3.1.4.41.1.2

BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage

The response WSDL message for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse** element.

3.1.4.41.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.41.2.1 **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor**

The input data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q179="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="typeDescriptorStruct" type="q179:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorStruct: The TypeDescriptor. The partition (1) of the TypeDescriptor MUST be the partition (1) of the protocol client.

3.1.4.41.2.2 **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse**

The result data for the **GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor** WSDL operation.

```
<xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q180="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult"
type="q180:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult: The list of TypeDescriptors. The partition (1) of each of these TypeDescriptors MUST be the partition (1) of the protocol client.

3.1.4.41.3 Complex Types

None.

3.1.4.41.4 Simple Types

None.

3.1.4.41.5 Attributes

None.

3.1.4.41.6 Groups

None.

3.1.4.41.7 Attribute Groups

None.

3.1.4.42 GetDataClassById

The **GetDataClassById** operation retrieves the **DataClass** with the specified **MetadataObjectId**.

```
<wsdl:operation name="GetDataClassById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassById"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

```

<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetDataClassById_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetDataClassById_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A DataClass with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.42.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.42.1.1

BusinessDataCatalogSharedService_GetDataClassById_InputMessage

The request WSDL message for the **GetDataClassById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
DataClassById

```

The SOAP body contains the **GetDataClassById** element.

3.1.4.42.1.2

BusinessDataCatalogSharedService_GetDataClassById_OutputMessage

The response WSDL message for the **GetDataClassById** WSDL operation.

The SOAP body contains the **GetDataClassByIdResponse** element.

3.1.4.42.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.42.2.1 GetDataClassById

The input data for the **GetDataClassById** WSDL operation.

```
<xs:element name="GetDataClassById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q109="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q109:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The MetadataObjectId of the DataClass.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a DataClass with the specified MetadataObjectId exists. If a DataClass with the specified MetadataObjectId does not exist and the value of this element is set to FALSE, the protocol server MUST set the value of the **GetDataClassByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.42.2.2 GetDataClassByIdResponse

The result data for the **GetDataClassById** WSDL operation.

```
<xs:element name="GetDataClassByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q110="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetDataClassByIdResult" nillable="true" type="q110:DataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetDataClassByIdResult: The DataClass. The partition (1) of this DataClass MUST be the partition (1) of the protocol client.

3.1.4.42.3 Complex Types

None.

3.1.4.42.4 Simple Types

None.

3.1.4.42.5 Attributes

None.

3.1.4.42.6 Groups

None.

3.1.4.42.7 Attribute Groups

None.

3.1.4.43 GetDataClassesForSystem

The **GetDataClassesForSystem** operation retrieves DataClasses contained by the specified LobSystem.

```
<wsdl:operation name="GetDataClassesForSystem">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystem"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_
FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateF
ault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage** request

message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist. <45>

3.1.4.43.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.43.1.1

BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage

The request WSDL message for the **GetDataClassesForSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDataClassesForSystem
```

The SOAP body contains the **GetDataClassesForSystem** element.

3.1.4.43.1.2

BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage

The response WSDL message for the **GetDataClassesForSystem** WSDL operation.

The SOAP body contains the **GetDataClassesForSystemResponse** element.

3.1.4.43.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.43.2.1 **GetDataClassesForSystem**

The input data for the **GetDataClassesForSystem** WSDL operation.

```
<xs:element name="GetDataClassesForSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

        <xs:element xmlns:q107="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q107:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

lobSystemId: The MetadataObjectId of the LobSystem.

activeOnly: Specifies the DataClasses to return. If this element is set to TRUE, only the active DataClasses MUST be returned. Otherwise, this operation MUST return DataClasses contained by the specified LobSystem, regardless of their active status.

partitionId: The partition (1) of the protocol client.

3.1.4.43.2.2 GetDataClassesForSystemResponse

The result data for the **GetDataClassesForSystem** WSDL operation.

```

<xs:element name="GetDataClassesForSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q108="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetDataClassesForSystemResult" type="q108:ArrayOfDataClassStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetDataClassesForSystemResult: The list of DataClasses. The partition (1) of each of these DataClasses MUST be the partition (1) of the protocol client.

3.1.4.43.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.43.3.1 ArrayOfDataClassStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfDataClassStruct** complex type is a list of DataClasses.

```

<xs:complexType name="ArrayOfDataClassStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct" nillable="true"
type="tns:DataClassStruct"/>
  </xs:sequence>
</xs:complexType>

```

DataClassStruct: A DataClass.

3.1.4.43.4 Simple Types

None.

3.1.4.43.5 Attributes

None.

3.1.4.43.6 Groups

None.

3.1.4.43.7 Attribute Groups

None.

3.1.4.44 GetDefaultValuesForTypeDescriptor

The **GetDefaultValuesForTypeDescriptor** operation retrieves the DefaultValues of the specified TypeDescriptor.

```
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage"
  />
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>
```



```

name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The TypeDescriptor with the specified MetadataObjectId does not exist.

3.1.4.44.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.44.1.1

BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage

The request WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor

```

The SOAP body contains the **GetDefaultValuesForTypeDescriptor** element.

3.1.4.44.1.2

BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage

The response WSDL message for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetDefaultValuesForTypeDescriptorResponse** element.

3.1.4.44.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.44.2.1 GetDefaultValuesForTypeDescriptor

The input data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="GetDefaultValuesForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element xmlns:q193="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q193:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The MetadataObjectId of the TypeDescriptor.

partitionId: The partition (1) of the protocol client.

3.1.4.44.2.2 GetDefaultValuesForTypeDescriptorResponse

The result data for the **GetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="GetDefaultValuesForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q194="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetDefaultValuesForTypeDescriptorResult" type="q194:ArrayOfDefaultValueStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetDefaultValuesForTypeDescriptorResult: The DefaultValue of the specified TypeDescriptor.

3.1.4.44.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.44.3.1 ArrayOfDefaultValueStruct

Namespace: Microsoft.SharePoint.BusinessData

A complex type that specifies a list of DefaultValue, as follows.

```
<xs:complexType name="ArrayOfDefaultValueStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct" nillable="true"
type="tns:DefaultValueStruct"/>
  </xs:sequence>
</xs:complexType>
```

DefaultValueStruct: A DefaultValue.

3.1.4.44.4 Simple Types

None.

3.1.4.44.5 Attributes

None.

3.1.4.44.6 Groups

None.

3.1.4.44.7 Attribute Groups

None.

3.1.4.45 GetEntitiesForAssociationAndRole

The **GetEntitiesForAssociationAndRole** operation retrieves the Entities that perform the role of source or destination for the specified Association.

```
<wsdl:operation name="GetEntitiesForAssociationAndRole">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForAssociationAndRole"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage"/
  >
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForAssociationAndRoleResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExcept
    ionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperati
    onExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfR
    angeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionSt
    ateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The value of the role parameter is not zero ("0") or "1".<46>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Association does not exist.<47>

3.1.4.45.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.45.1.1

BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage

The request WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole

```

The SOAP body contains the **GetEntitiesForAssociationAndRole** element.

3.1.4.45.1.2

BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage

The response WSDL message for the **GetEntitiesForAssociationAndRole** WSDL operation.

The SOAP body contains the **GetEntitiesForAssociationAndRoleResponse** element.

3.1.4.45.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.45.2.1 GetEntitiesForAssociationAndRole

The input data for the **GetEntitiesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntitiesForAssociationAndRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte"/>
      <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:q123="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q123:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The MetadataObjectId of the Association.

role: Specifies the Entities to be returned. The following table describes possible values.

Value	Description
0	The Entities are sources of the Association.
1	The Entity is the destinations of the Association.

activeOnly: This element MUST contain information about the Entities to be returned. If set to TRUE, the returned Entities MUST all be active. Otherwise, this operation MUST return Entities, regardless of the active status.

partitionId: The partition (1) of the protocol client.

3.1.4.45.2.2 GetEntitiesForAssociationAndRoleResponse

The result data for the **GetEntitiesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntitiesForAssociationAndRoleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q124="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetEntitiesForAssociationAndRoleResult" type="q124:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesForAssociationAndRoleResult: The list of Entities. The partition (1) of these Entities MUST be the partition (1) of the protocol client.

3.1.4.45.3 Complex Types

None.

3.1.4.45.4 Simple Types

None.

3.1.4.45.5 Attributes

None.

3.1.4.45.6 Groups

None.

3.1.4.45.7 Attribute Groups

None.

3.1.4.46 GetEntitiesForSystem

The **GetEntitiesForSystem** operation retrieves Entities of the specified LobSystem.

```
<wsdl:operation name="GetEntitiesForSystem">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForSystem"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForSystemResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_Fau
    ltMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFau
    lt_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault
    _FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionExcepio
    nFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_Fau
    ltMessage"/>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionF
ault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist. <48>

3.1.4.46.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.46.1.1

BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage

The request WSDL message for the **GetEntitiesForSystem** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
EntitiesForSystem

```

The SOAP body contains the **GetEntitiesForSystem** element.

3.1.4.46.1.2

BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage

The response WSDL message for the **GetEntitiesForSystem** WSDL operation.

The SOAP body contains the **GetEntitiesForSystemResponse** element.

3.1.4.46.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.46.2.1 GetEntitiesForSystem

The input data for the **GetEntitiesForSystem** WSDL operation.

```
<xs:element name="GetEntitiesForSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:q121="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q121:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The MetadataObjectId of the LobSystem.

activeOnly: This element MUST contain information about the Entities to be returned. If set to TRUE, the returned Entities MUST all be active. Otherwise, this operation MUST return Entities, regardless of the active status.

partitionId: The partition (1) of the protocol client.

3.1.4.46.2.2 GetEntitiesForSystemResponse

The result data for the **GetEntitiesForSystem** WSDL operation.

```
<xs:element name="GetEntitiesForSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q122="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetEntitiesForSystemResult" type="q122:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesForSystemResult: The list of Entities. The partition (1) of these Entities MUST be the partition (1) of the protocol client.

3.1.4.46.3 Complex Types

None.

3.1.4.46.4 Simple Types

None.

3.1.4.46.5 Attributes

None.

3.1.4.46.6 Groups

None.

3.1.4.46.7 Attribute Groups

None.

3.1.4.47 GetEntitiesLikeNameAndNamespace

The **GetEntitiesLikeNameAndNamespace** operation retrieves the Entities that match the specified wildcard patterns for name and namespace.

An Entity matches the pattern specified by **wildcardedName** if, and only if, **wildcardedName** matches the name of the Entity, the localized name of the Entity with language code identifier (LCID) set to zero, or the localized name of the Entity with the LCID specified by **callerCultureLcid**.

An Entity matches the pattern specified by **wildcardedNamespace** if, and only if, **wildcardedNamespace** matches the namespace of the Entity.

```
<wsdl:operation name="GetEntitiesLikeNameAndNamespace">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

</wsdl:operation>

The protocol client sends a

BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage** response message, unless the condition in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the wildcardedName element exceeds 255 characters, or the length of the name of the wildcardedNamespace exceeds 255 characters, or the specified wildcardedName is invalid, or the specified wildcardedNamespace is invalid.

3.1.4.47.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.47.1.1

BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage

The request WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

The SOAP action value is:

`http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesLikeNameAndNamespace`

The SOAP body contains the **GetEntitiesLikeNameAndNamespace** element.

3.1.4.47.1.2

BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage

The response WSDL message for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

The SOAP body contains the **GetEntitiesLikeNameAndNamespaceResponse** element.

3.1.4.47.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.47.2.1 GetEntitiesLikeNameAndNamespace

The input data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```

<xs:element name="GetEntitiesLikeNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="wildcardedNamespace" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="wildcardedName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:q114="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q114:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

wildcardedNamespace: The wildcard pattern to be used to retrieve the Entities whose namespace matches the wildcard pattern.

The following is the ABNF for the **wildcardedNamespace**.

```

wildcardedNamespace = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A

```

The protocol server **MUST** match the namespace of the Entities with the value of **wildcardedNamespace** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```

EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)

```

wildcardedName: The wildcard pattern to be used to retrieve the Entities whose name or localized name matches the wildcard pattern.

The following is the ABNF for the **wildcardedName**.

```

wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A

```

The protocol server **MUST** match the name or localized name of the Entities with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows:

```

EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)

```

callerCultureLcid: The language code identifier (LCID) representing the locale to be used when retrieving the LobSystems.

activeOnly: This element MUST contain the information about the Entities to be returned. If set to TRUE, the returned Entities MUST all be active. Otherwise, this operation MUST return Entities regardless of the active status.

partitionId: The partition (1) of the protocol client.

3.1.4.47.2.2 GetEntitiesLikeNameAndNamespaceResponse

The result data for the **GetEntitiesLikeNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q115="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetEntitiesLikeNameAndNamespaceResult" type="q115:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesLikeNameAndNamespaceResult: The list of Entities. The partition (1) of these Entities MUST be the partition (1) of the protocol client.

3.1.4.47.3 Complex Types

None.

3.1.4.47.4 Simple Types

None.

3.1.4.47.5 Attributes

None.

3.1.4.47.6 Groups

None.

3.1.4.47.7 Attribute Groups

None.

3.1.4.48 GetEntitiesReferencedByModelId

The **GetEntitiesReferencedByModelId** operation retrieves Entities that are referenced by the specified Model.

```
<wsdl:operation name="GetEntitiesReferencedByModelId">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage"/>
```

```

    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRan
geExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperation
ExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptio
nFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStat
eFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptio
nStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist. <49>

3.1.4.48.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.48.1.1

BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage

The request WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesReferencedByModelId
```

The SOAP body contains the **GetEntitiesReferencedByModelId** element.

3.1.4.48.1.2

BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage

The response WSDL message for the **GetEntitiesReferencedByModelId** WSDL operation.

The SOAP body contains the **GetEntitiesReferencedByModelIdResponse** element.

3.1.4.48.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.48.2.1 GetEntitiesReferencedByModelId

The input data for the **GetEntitiesReferencedByModelId** WSDL operation.

```
<xs:element name="GetEntitiesReferencedByModelId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="metadataObjectId" type="xs:unsignedInt"/>
      <xs:element
        xmlns:q111="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" minOccurs="1" maxOccurs="1" name="mode"
        type="q111:EntityConstants.EntitiesInModelQuery"/>
      <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean"/>
      <xs:element xmlns:q112="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="1" maxOccurs="1" name="partitionId" type="q112:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectId: The MetadataObjectId of the Model.

mode: Specifies the Entities to be returned. The value of this element is specified in **EntityConstants.EntitiesInModelQuery** (section [3.1.4.48.4.1](#)).

activeOnly: This element MUST contain information about the Entities to be returned. If it is set to TRUE, the returned Entities MUST all be active. Otherwise, this operation MUST return Entities regardless of the active status.

partitionId: The partition (1) of the protocol client.

3.1.4.48.2.2 GetEntitiesReferencedByModelIdResponse

The result data for the **GetEntitiesReferencedByModelId** WSDL operation.

```
<xs:element name="GetEntitiesReferencedByModelIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q113="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetEntitiesReferencedByModelIdResult" type="q113:ArrayOfEntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntitiesReferencedByModelIdResult: The list of Entities. The partition (1) of these Entities MUST be the partition (1) of the protocol client.

3.1.4.48.3 Complex Types

None.

3.1.4.48.4 Simple Types

The following XML Schema simple type definitions are specific to this operation.

3.1.4.48.4.1 EntityConstants.EntitiesInModelQuery

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants>

Specifies the Entities to be returned.

```
<xs:simpleType name="EntityConstants.EntitiesInModelQuery">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllEntitiesInModel"/>
    <xs:enumeration value="OwnedEntitiesInModel"/>
    <xs:enumeration value="SharedEntitiesInModel"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for EntityConstants.EntitiesInModelQuery:

Value	Meaning
AllEntitiesInModel	Return all Entities referenced by the specified Model.
OwnedEntitiesInModel	Returned Entities MUST be referenced only in the specified Model.

Value	Meaning
SharedEntitiesInModel	Returned Entities MUST be referenced in the specified Model and in other Models.

3.1.4.48.5 Attributes

None.

3.1.4.48.6 Groups

None.

3.1.4.48.7 Attribute Groups

None.

3.1.4.49 GetEntityById

The **GetEntityById** operation retrieves the Entity with the specified MetadataObjectId.

```
<wsdl:operation name="GetEntityById">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityById"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityById_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_Fa
ultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessa
ge"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultM
essage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_Fault
Message"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessa
ge"/>
</wsdl:operation>
```


</wsdl:operation>

The protocol client sends a

BusinessDataCatalogSharedService_GetEntityById_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetEntityById_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.49.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.49.1.1 BusinessDataCatalogSharedService_GetEntityById_InputMessage

The request WSDL message for the **GetEntityById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById
```

The SOAP body contains the **GetEntityById** element.

3.1.4.49.1.2 BusinessDataCatalogSharedService_GetEntityById_OutputMessage

The response WSDL message for the **GetEntityById** WSDL operation.

The SOAP body contains the **GetEntityByIdResponse** element.

3.1.4.49.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.49.2.1 GetEntityById

The input data for the **GetEntityById** WSDL operation.

```

<xs:element name="GetEntityById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q130="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q130:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

entityId: The MetadataObjectId of the Entity.

performErrorCheck: The value of this element MUST be ignored by the protocol server if an Entity with the specified MetadataObjectId exists. If an Entity with the specified MetadataObjectId does not exist and the value of this element is set to FALSE, the protocol server MUST set the value of the **GetEntityByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.49.2.2 GetEntityByIdResponse

The result data for the **GetEntityById** WSDL operation.

```

<xs:element name="GetEntityByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q131="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetEntityByIdResult" nillable="true" type="q131:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetEntityByIdResult: The Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.49.3 Complex Types

None.

3.1.4.49.4 Simple Types

None.

3.1.4.49.5 Attributes

None.

3.1.4.49.6 Groups

None.

3.1.4.49.7 Attribute Groups

None.

3.1.4.50 GetEntityCount

The **GetEntityCount** operation retrieves the number of Entities that are contained by the specified LobSystem.

```
<wsdl:operation name="GetEntityCount">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityCount_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityCount_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section

[2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"). <50>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist. <51>

3.1.4.50.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.50.1.1 BusinessDataCatalogSharedService_GetEntityCount_InputMessage

The request WSDL message for the **GetEntityCount** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityCount
```

The SOAP body contains the **GetEntityCount** element.

3.1.4.50.1.2 BusinessDataCatalogSharedService_GetEntityCount_OutputMessage

The response WSDL message for the **GetEntityCount** WSDL operation.

The SOAP body contains the **GetEntityCountResponse** element.

3.1.4.50.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.50.2.1 GetEntityCount

The input data for the **GetEntityCount** WSDL operation.

```
<xs:element name="GetEntityCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:q99="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q99:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The MetadataObjectId of the LobSystem.

partitionId: The partition (1) of the protocol client.

3.1.4.50.2.2 GetEntityCountResponse

The result data for the **GetEntityCount** WSDL operation.

```
<xs:element name="GetEntityCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="GetEntityCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityCountResult: The number of Entities contained by the specified LobSystem.

3.1.4.50.3 Complex Types

None.

3.1.4.50.4 Simple Types

None.

3.1.4.50.5 Attributes

None.

3.1.4.50.6 Groups

None.

3.1.4.50.7 Attribute Groups

None.

3.1.4.51 GetEntityNameAndNamespacesForAssociationAndRole

The **GetEntityNameAndNamespacesForAssociationAndRole** operation retrieves the names and namespaces of Entities that are referenced by the specified Association. Only Entities in the specified association **role** of source or destination are returned.

```
<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole"
    message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
    message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
    name="BdcExceptionStateFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_BdcExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_InvalidOperationExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_MetadataExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with at most one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero, or the value of the role parameter is not zero ("0") or "1".
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Association does not exist.

3.1.4.51.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.51.1.1

BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputMessage

The request WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRole
```

The SOAP body contains the **GetEntityNameAndNamespacesForAssociationAndRole** element.

3.1.4.51.1.2

BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_OutputMessage

The response WSDL message for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

The SOAP body contains the **GetEntityNameAndNamespacesForAssociationAndRoleResponse** element.

3.1.4.51.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.51.2.1 **GetEntityNameAndNamespacesForAssociationAndRole**

The input data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="associationId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte"/>
      <xs:element xmlns:q127="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q127:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

associationId: The MetadataObjectId of the Association for which the Entity information is to be returned.

role: A byte that specifies whether to return information for the Entities that are referenced as Association source or Association destination by the specified Association. The following table describes possible values.

Possible parameter values:

Value	Description
0	Returns a value for Entities that are referenced as Association sources by the specified Association.
1	Returns a value for Entities that are referenced as Association destination by the specified Association.

partitionId: The partition (1) of the protocol client.

3.1.4.51.2.2 GetEntityNameAndNamespacesForAssociationAndRoleResponse

The result data for the **GetEntityNameAndNamespacesForAssociationAndRole** WSDL operation.

```
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q128="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="namespaces" type="q128:ArrayOfstring"/>
      <xs:element xmlns:q129="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="names" type="q129:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespaces: The namespaces of the Entities that are referenced by the specified Association in the specified role of source or Association destination.

names: The names of the Entities that are referenced by the specified Association in the specified role of source or destination. The order of these names **MUST** correspond to the order of namespaces, so that the *n*th name and the *n*th namespace together describe the name and namespace of a single Entity.

3.1.4.51.3 Complex Types

None.

3.1.4.51.4 Simple Types

None.

3.1.4.51.5 Attributes

None.

3.1.4.51.6 Groups

None.

3.1.4.51.7 Attribute Groups

None.

3.1.4.52 GetEntityWithNameAndNamespace

The **GetEntityWithNameAndNamespace** operation retrieves the active Entity with the specified name and namespace in the specified partition (1).

```
<wsdl:operation name="GetEntityWithNameAndNamespace">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionState
Fault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentException
Fault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataException
StateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified name or the specified namespace exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An active Entity with the specified namespace and name does not exist in the specified partition (1).

3.1.4.52.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.52.1.1

BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage

The request WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace
```

The SOAP body contains the **GetEntityWithNameAndNamespace** element.

3.1.4.52.1.2

BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage

The response WSDL message for the **GetEntityWithNameAndNamespace** WSDL operation.

The SOAP body contains the **GetEntityWithNameAndNamespaceResponse** element.

3.1.4.52.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.52.2.1 GetEntityWithNameAndNamespace

The input data for the **GetEntityWithNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespace">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="namespace" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string"/>
      <xs:element xmlns:q116="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q116:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespace: The namespace of the Entity to be returned.

name: The name of the Entity to be returned.

partitionId: The partition (1) of the protocol client.

3.1.4.52.2 GetEntityWithNameAndNamespaceResponse

The result data for the **GetEntityWithNameAndNamespace** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespaceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q117="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetEntityWithNameAndNamespaceResult" type="q117:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityWithNameAndNamespaceResult: The Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.52.3 Complex Types

None.

3.1.4.52.4 Simple Types

None.

3.1.4.52.5 Attributes

None.

3.1.4.52.6 Groups

None.

3.1.4.52.7 Attribute Groups

None.

3.1.4.53 GetEntityWithNameAndNamespaceAndVersion

The **GetEntityWithNameAndNamespaceAndVersion** operation retrieves the Entity with the specified name, namespace, and version.

```
<wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersion"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMe
ssage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputM
essage"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExce
ptionStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invalid
OperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metadat
aExceptionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Input Message request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the specified name or the length of the specified namespace exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified namespace and name and version does not exist in the specified partition (1).

3.1.4.53.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.53.1.1

BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage

The request WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion
```

The SOAP body contains the **GetEntityWithNameAndNamespaceAndVersion** element.

3.1.4.53.1.2

BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage

The response WSDL message for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

The SOAP body contains the **GetEntityWithNameAndNamespaceAndVersionResponse** element.

3.1.4.53.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.53.2.1 GetEntityWithNameAndNamespaceAndVersion

The input data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersion">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="namespace" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string"/>
      <xs:element xmlns:q118="http://schemas.datacontract.org/2004/07/System" minOccurs="1"
maxOccurs="1" name="version" type="q118:Version"/>
      <xs:element xmlns:q119="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q119:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

namespace: The namespace of the Entity to be returned.

name: The name of the Entity to be returned.

version: The version of the Entity to be returned.

partitionId: The partition (1) of the protocol client.

3.1.4.53.2.2 GetEntityWithNameAndNamespaceAndVersionResponse

The result data for the **GetEntityWithNameAndNamespaceAndVersion** WSDL operation.

```
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q120="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetEntityWithNameAndNamespaceAndVersionResult" type="q120:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntityWithNameAndNamespaceAndVersionResult: The Entity. The partition (1) of this Entity MUST be the partition (1) of the protocol client.

3.1.4.53.3 Complex Types

None.

3.1.4.53.4 Simple Types

None.

3.1.4.53.5 Attributes

None.

3.1.4.53.6 Groups

None.

3.1.4.53.7 Attribute Groups

None.

3.1.4.54 GetFieldTypeDescriptorsByMethodInstance

The **GetFieldTypeDescriptorsByMethodInstance** operation retrieves TypeDescriptors that correspond to fields (4) of the MethodInstance with the specified name in the specified Entity.

```
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstance"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMe
ssage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputM
essage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invalid
OperationExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExce
ptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metadat
aExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMes
sage** request message, and the protocol server MUST respond with a
**BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputM
essage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	<p>The MethodInstanceType (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel) of the MethodInstance with the specified name in the specified Entity is not equal to any one of the following:</p> <ul style="list-style-type: none"> Finder SpecificFinder ViewAccessor

Error complex type	Condition
	<ul style="list-style-type: none"> IdEnumerator ChangedIdEnumerator DeletedIdEnumerator BulkSpecificFinder BulkAssociationNavigator BulkIdEnumerator Creator Updater
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A MethodInstance with the specified name does not exist in the specified Entity.

3.1.4.54.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.54.1.1

BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage

The request WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFieldTypeDescriptorsByMethodInstance
```

The SOAP body contains the **GetFieldTypeDescriptorsByMethodInstance** element.

3.1.4.54.1.2

BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage

The response WSDL message for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

The SOAP body contains the **GetFieldTypeDescriptorsByMethodInstanceResponse** element.

3.1.4.54.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.54.2.1 GetFieldTypeDescriptorsByMethodInstance

The input data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstance">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="methodName" type="xs:string"/>
      <xs:element xmlns:q181="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStruct" type="q181:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodName: The name of the MethodInstance.

entityStruct: The Entity. The partition (1) of the Entity MUST be the partition (1) of the protocol client.

3.1.4.54.2.2 GetFieldTypeDescriptorsByMethodInstanceResponse

The result data for the **GetFieldTypeDescriptorsByMethodInstance** WSDL operation.

```
<xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q182="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetFieldTypeDescriptorsByMethodInstanceResult"
type="q182:ArrayOfPropertyDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetFieldTypeDescriptorsByMethodInstanceResult: The list of TypeDescriptors. The partition (1) of these TypeDescriptors MUST be the partition (1) of the protocol client.

3.1.4.54.3 Complex Types

None.

3.1.4.54.4 Simple Types

None.

3.1.4.54.5 Attributes

None.

3.1.4.54.6 Groups

None.

3.1.4.54.7 Attribute Groups

None.

3.1.4.55 GetFilterDescriptorById

The **GetFilterDescriptorById** operation retrieves the FilterDescriptor with the specified MetadataObjectId.

```
<wsdl:operation name="GetFilterDescriptorById">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A FilterDescriptor with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.55.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.55.1.1

BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage

The request WSDL message for the **GetFilterDescriptorById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById
```

The SOAP body contains the **GetFilterDescriptorById** element.

3.1.4.55.1.2

BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage

The response WSDL message for the **GetFilterDescriptorById** WSDL operation.

The SOAP body contains the **GetFilterDescriptorByIdResponse** element.

3.1.4.55.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.55.2.1 GetFilterDescriptorById

The input data for the **GetFilterDescriptorById** WSDL operation.

```
<xs:element name="GetFilterDescriptorById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="filterDescriptorId"
type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q161="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q161:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

filterDescriptorId: The MetadataObjectId of the FilterDescriptor.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a FilterDescriptor exists. If a FilterDescriptor with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetFilterDescriptorByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.55.2.2 GetFilterDescriptorByIdResponse

The result data for the **GetFilterDescriptorById** WSDL operation.

```
<xs:element name="GetFilterDescriptorByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q162="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetFilterDescriptorByIdResult" nillable="true" type="q162:FilterDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetFilterDescriptorByIdResult: The FilterDescriptor that was returned. The partition (1) of this FilterDescriptor MUST be the partition (1) of the protocol client.

3.1.4.55.3 Complex Types

None.

3.1.4.55.4 Simple Types

None.

3.1.4.55.5 Attributes

None.

3.1.4.55.6 Groups

None.

3.1.4.55.7 Attribute Groups

None.

3.1.4.56 GetFilterDescriptorsForMethod

The **GetFilterDescriptorsForMethod** operation retrieves the FilterDescriptors contained by the specified Method.

```
<wsdl:operation name="GetFilterDescriptorsForMethod">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage"/>
```

```

<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentException
Fault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExcep
tionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionState
Fault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationE
xceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataException
StateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the Method is set to zero ("0"). <52>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Method with the specified MetadataObjectId does not exist. <53>

3.1.4.56.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.56.1.1

BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage

The request WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorsForMethod
```

The SOAP body contains the **GetFilterDescriptorsForMethod** element.

3.1.4.56.1.2

BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage

The response WSDL message for the **GetFilterDescriptorsForMethod** WSDL operation.

The SOAP body contains the **GetFilterDescriptorsForMethodResponse** element.

3.1.4.56.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.56.2.1 GetFilterDescriptorsForMethod

The input data for the **GetFilterDescriptorsForMethod** WSDL operation.

```
<xs:element name="GetFilterDescriptorsForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:q163="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q163:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The MetadataObjectId of the Method for which the FilterDescriptors are obtained.

partitionId: The partition (1) of the protocol client.

3.1.4.56.2.2 GetFilterDescriptorsForMethodResponse

The result data for the **GetFilterDescriptorsForMethod** WSDL operation.

```
<xs:element name="GetFilterDescriptorsForMethodResponse">
  <xs:complexType>
    <xs:sequence>
```

```

        <xs:element xmlns:q164="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetFilterDescriptorsForMethodResult" type="q164:ArrayOfFilterDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

GetFilterDescriptorsForMethodResult: The list of FilterDescriptors. The partition (1) of these FilterDescriptors MUST be the partition (1) of the protocol client.

3.1.4.56.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.56.3.1 ArrayOfFilterDescriptorStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfFilterDescriptorStruct** complex type contains a list of FilterDescriptors.

```

<xs:complexType name="ArrayOfFilterDescriptorStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="tns:FilterDescriptorStruct"/>
    </xs:sequence>
</xs:complexType>

```

FilterDescriptorStruct: A FilterDescriptor of a Method.

3.1.4.56.4 Simple Types

None.

3.1.4.56.5 Attributes

None.

3.1.4.56.6 Groups

None.

3.1.4.56.7 Attribute Groups

None.

3.1.4.57 GetIdentifierById

The **GetIdentifierById** operation retrieves the Identifier with the specified MetadataObjectId.

```

<wsdl:operation name="GetIdentifierById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage"/>

```

```

<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_Fa
ultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultM
essage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFaul
t_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFa
ult_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_F
aultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultM
essage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetIdentifierById_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Identifier with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.57.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.57.1.1

BusinessDataCatalogSharedService_GetIdentifierById_InputMessage

The request WSDL message for the **GetIdentifierById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierById
```

The SOAP body contains the **GetIdentifierById** element.

3.1.4.57.1.2

BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage

The response WSDL message for the **GetIdentifierById** WSDL operation.

The SOAP body contains the **GetIdentifierByIdResponse** element.

3.1.4.57.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.57.2.1 GetIdentifierById

The input data for the **GetIdentifierById** WSDL operation.

```
<xs:element name="GetIdentifierById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="identifierId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q152="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q152:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

identifierId: The MetadataObjectId of the Identifier.

performErrorCheck: The value of this element MUST be ignored by the protocol server if an Identifier with the specified MetadataObjectId exists. If an Identifier with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetIdentifierByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.57.2.2 GetIdentifierByIdResponse

The result data for the **GetIdentifierById** WSDL operation.

```

<xs:element name="GetIdentifierByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q153="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetIdentifierByIdResult" nillable="true" type="q153:IdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetIdentifierByIdResult: The Identifier that was returned. The partition (1) of this Identifier MUST be the partition (1) of the protocol client.

3.1.4.57.3 Complex Types

None.

3.1.4.57.4 Simple Types

None.

3.1.4.57.5 Attributes

None.

3.1.4.57.6 Groups

None.

3.1.4.57.7 Attribute Groups

None.

3.1.4.58 GetIdentifiersForEntity

The **GetIdentifiersForEntity** operation retrieves the Identifiers contained by the specified Entity.

```

<wsdl:operation name="GetIdentifiersForEntity">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntity"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateF
ault_FaultMessage"/>

```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_
FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExcep
tionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the Entity is set to zero ("0").<54>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	An Entity with the specified MetadataObjectId does not exist.<55>

3.1.4.58.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.58.1.1

BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage

The request WSDL message for the **GetIdentifiersForEntity** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity>

The SOAP body contains the **GetIdentifiersForEntity** element.

3.1.4.58.1.2

BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage

The response WSDL message for the **GetIdentifiersForEntity** WSDL operation.

The SOAP body contains the **GetIdentifiersForEntityResponse** element.

3.1.4.58.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.58.2.1 **GetIdentifiersForEntity**

The input data for the **GetIdentifiersForEntity** WSDL operation.

```
<xs:element name="GetIdentifiersForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:q154="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q154:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The MetadataObjectId of the Entity for which the Identifiers are to be obtained.

partitionId: The partition (1) of the protocol client.

3.1.4.58.2.2 **GetIdentifiersForEntityResponse**

The result data for the **GetIdentifiersForEntity** WSDL operation.

```
<xs:element name="GetIdentifiersForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q155="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetIdentifiersForEntityResult" type="q155:ArrayOfIdentifierStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetIdentifiersForEntityResult: The list of Identifiers. The partition (1) of these Identifiers MUST be the partition (1) of the protocol client.

3.1.4.58.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.58.3.1 ArrayOfIdentifierStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfIdentifierStruct** complex type contains a list of Identifiers.

```
<xs:complexType name="ArrayOfIdentifierStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct" nillable="true"
      type="tns:IdentifierStruct"/>
  </xs:sequence>
</xs:complexType>
```

IdentifierStruct: An **Identifier** of an Entity.

3.1.4.58.4 Simple Types

None.

3.1.4.58.5 Attributes

None.

3.1.4.58.6 Groups

None.

3.1.4.58.7 Attribute Groups

None.

3.1.4.59 GetImportProgress

The **GetImportProgress** operation retrieves the progress of an [ImportPackageWithProgress](#) operation, using the unique identifier provided by the client at the creation of the import operation.

```
<wsdl:operation name="GetImportProgress">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress"
    message="tns:BusinessDataCatalogSharedService_GetImportProgress_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse"
    message="tns:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_GetImportProgress_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetImportProgress_OutputMessage response message.

3.1.4.59.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.59.1.1

BusinessDataCatalogSharedService_GetImportProgress_InputMessage

The request WSDL message for the **GetImportProgress** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress
```

The SOAP body contains the **GetImportProgress** element.

3.1.4.59.1.2

BusinessDataCatalogSharedService_GetImportProgress_OutputMessage

The response WSDL message for the **GetImportProgress** WSDL operation.

The SOAP body contains the **GetImportProgressResponse** element.

3.1.4.59.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.59.2.1 **GetImportProgress**

The input data for the **GetImportProgress** WSDL operation.

```
<xs:element name="GetImportProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q62="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="jobId" type="q62:guid"/>
      <xs:element xmlns:q63="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q63:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

jobId: The identifier of the import operation for which the progress is to be retrieved.

partitionId: The partition (1) of the protocol client.

3.1.4.59.2.2 **GetImportProgressResponse**

The result data for the **GetImportProgress** WSDL operation.

```
<xs:element name="GetImportProgressResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="GetImportProgressResult"
type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetImportProgressResult: The fraction of the operation that is finished. The value MUST be in the range from zero through 1. The value MUST be zero if **jobId** is not recognized as a current import job.

3.1.4.59.3 Complex Types

None.

3.1.4.59.4 Simple Types

None.

3.1.4.59.5 Attributes

None.

3.1.4.59.6 Groups

None.

3.1.4.59.7 Attribute Groups

None.

3.1.4.60 GetLevelForTypeDescriptor

The **GetLevelForTypeDescriptor** operation retrieves the depth of the specified TypeDescriptor in the TypeDescriptor tree. The TypeDescriptor tree for a specified TypeDescriptor consists of the specified TypeDescriptor with depth zero. Any TypeDescriptor that is contained by a TypeDescriptor in the TypeDescriptor tree is also in the tree with depth 1, plus the depth of the containing TypeDescriptor.

```
<wsdl:operation name="GetLevelForTypeDescriptor">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"/>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionExc
eptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExcep
tionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStat
eFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified TypeDescriptor is set to zero ("0").<56>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	At least one of the following is true: <ul style="list-style-type: none"> The specified TypeDescriptor does not exist.<57> The specified TypeDescriptor is not the root of the TypeDescriptor tree, and the parent of the specified TypeDescriptor does not exist. An ancestor of the specified TypeDescriptor is not the root of the TypeDescriptor tree that contains the specified TypeDescriptor, and the parent of the ancestor does not exist.

3.1.4.60.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.60.1.1

BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage

The request WSDL message for the **GetLevelForTypeDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor
```

The SOAP body contains the **GetLevelForTypeDescriptor** element.

3.1.4.60.1.2

BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage

The response WSDL message for the **GetLevelForTypeDescriptor** WSDL operation.

The SOAP body contains the **GetLevelForTypeDescriptorResponse** element.

3.1.4.60.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.60.2.1 **GetLevelForTypeDescriptor**

The input data for the **GetLevelForTypeDescriptor** WSDL operation.

```
<xs:element name="GetLevelForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q198="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="typeDescriptorStruct" type="q198:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorStruct: The TypeDescriptor. The partition (1) of the TypeDescriptor MUST be the partition (1) of the protocol client.

3.1.4.60.2.2 **GetLevelForTypeDescriptorResponse**

The result data for the **GetLevelForTypeDescriptor** WSDL operation.

```
<xs:element name="GetLevelForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLevelForTypeDescriptorResult: The depth of the specified TypeDescriptor in the TypeDescriptor tree that contains the TypeDescriptor.

3.1.4.60.3 Complex Types

None.

3.1.4.60.4 Simple Types

None.

3.1.4.60.5 Attributes

None.

3.1.4.60.6 Groups

None.

3.1.4.60.7 Attribute Groups

None.

3.1.4.61 GetLobSystemAllAssembliesBytes

The **GetLobSystemAllAssembliesBytes** operation retrieves the Business Logic Modules associated with the specified LobSystem if the **systemType** element of the specified LobSystem is not set to "Custom". If the **systemType** element of the specified LobSystem is set to "Custom", the behavior of this operation is implementation-specific[58](#).

```
<wsdl:operation name="GetLobSystemAllAssembliesBytes">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperationExceptionFault_FaultMessage"/>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptio
nStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptio
nFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage** response message, unless any one of the conditions in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to read 59 the specified LobSystem, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero ("0").

3.1.4.61.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.61.1.1

BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage

The request WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
LobSystemAllAssembliesBytes

```

The SOAP body contains the **GetLobSystemAllAssembliesBytes** element.

3.1.4.61.1.2

BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage

The response WSDL message for the **GetLobSystemAllAssembliesBytes** WSDL operation.

The SOAP body contains the **GetLobSystemAllAssembliesBytesResponse** element.

3.1.4.61.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.61.2.1 GetLobSystemAllAssembliesBytes

The input data for the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<xs:element name="GetLobSystemAllAssembliesBytes">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q84="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="lobSystemStruct" type="q84:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The LobSystem. The partition (1) of the LobSystem MUST be the partition (1) of the protocol client.

3.1.4.61.2.2 GetLobSystemAllAssembliesBytesResponse

The result data for the **GetLobSystemAllAssembliesBytes** WSDL operation.

```
<xs:element name="GetLobSystemAllAssembliesBytesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q85="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="GetLobSystemAllAssembliesBytesResult"
type="q85:ArrayOfbase64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemAllAssembliesBytesResult: The list of Business Logic Modules. If the specified LobSystem is not associated with any Business Logic Module, this element MUST NOT be present.

3.1.4.61.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.61.3.1 ArrayOfbase64Binary

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfbase64Binary** complex type MUST be an array of elements, where each element contains data encoded with base 64 encoding.

```
<xs:complexType name="ArrayOfbase64Binary">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
      type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
```

base64Binary: Data encoded with base 64 encoding.

3.1.4.61.4 Simple Types

None.

3.1.4.61.5 Attributes

None.

3.1.4.61.6 Groups

None.

3.1.4.61.7 Attribute Groups

None.

3.1.4.62 GetLobSystemById

The **GetLobSystemById** operation retrieves the LobSystem with the specified MetadataObjectId.

```
<wsdl:operation name="GetLobSystemById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage"/>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMe
ssage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_Fau
ltMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the LobSystem with the specified MetadataObjectId, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A LobSystem with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.62.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.62.1.1

BusinessDataCatalogSharedService_GetLobSystemById_InputMessage

The request WSDL message for the **GetLobSystemById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemById
```

The SOAP body contains the **GetLobSystemById** element.

3.1.4.62.1.2

BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage

The response WSDL message for the **GetLobSystemById** WSDL operation.

The SOAP body contains the **GetLobSystemByIdResponse** element.

3.1.4.62.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.62.2.1 **GetLobSystemById**

The input data for the **GetLobSystemById** WSDL operation.

```
<xs:element name="GetLobSystemById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q97="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q97:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The MetadataObjectId of the LobSystem that is to be retrieved.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a LobSystem with the specified MetadataObjectId exists. If a LobSystem with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetLobSystemByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.62.2.2 **GetLobSystemByIdResponse**

The result data for the **GetLobSystemById** WSDL operation.

```
<xs:element name="GetLobSystemByIdResponse">
  <xs:complexType>
    <xs:sequence>
```

```

        <xs:element xmlns:q98="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetLobSystemByIdResult" nillable="true" type="q98:LobSystemStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

GetLobSystemByIdResult: The LobSystem. The partition (1) of the LobSystem MUST be the partition (1) of the protocol client.

3.1.4.62.3 Complex Types

None.

3.1.4.62.4 Simple Types

None.

3.1.4.62.5 Attributes

None.

3.1.4.62.6 Groups

None.

3.1.4.62.7 Attribute Groups

None.

3.1.4.63 GetLobSystemByName

The **GetLobSystemByName** operation retrieves the specified LobSystem.

```

<wsdl:operation name="GetLobSystemByName">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage"/>
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_F
aultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"

```



```

message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_Fault
Message"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_
FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_Fault
Message"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to read<60> the specified LobSystem, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified name exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.

3.1.4.63.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.63.1.1

BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage

The request WSDL message for the **GetLobSystemByName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemByName
```

The SOAP body contains the **GetLobSystemByName** element.

3.1.4.63.1.2

BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage

The response WSDL message for the **GetLobSystemByName** WSDL operation.

The SOAP body contains the **GetLobSystemByNameResponse** element.

3.1.4.63.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.63.2.1 **GetLobSystemByName**

The input data for the **GetLobSystemByName** WSDL operation.

```
<xs:element name="GetLobSystemByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string"/>
      <xs:element xmlns:q93="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q93:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the LobSystem.

partitionId: The partition (1) of the protocol client.

3.1.4.63.2.2 **GetLobSystemByNameResponse**

The result data for the **GetLobSystemByName** WSDL operation.

```
<xs:element name="GetLobSystemByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q94="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetLobSystemByNameResult" type="q94:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemByNameResult: The LobSystem with the specified name. The partition (1) of this LobSystem MUST be the partition (1) of the protocol client.

3.1.4.63.3 Complex Types

None.

3.1.4.63.4 Simple Types

None.

3.1.4.63.5 Attributes

None.

3.1.4.63.6 Groups

None.

3.1.4.63.7 Attribute Groups

None.

3.1.4.64 GetLobSystemDataByLobSystem

The **GetLobSystemDataByLobSystem** operation retrieves Business Logic Modules [61](#) associated with the specified LobSystem.

```
<wsdl:operation name="GetLobSystemDataByLobSystem">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetLobSystemDataByLobSystem"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetLobSystemDataByLobSystemResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExc
    eptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeE
    xceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcepti
    onFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFa
    ult_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionSt
ateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFa
ult_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the specified LobSystem, and the CameThroughRemoteAdmin Service header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero ("0"). <62>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist. <63>

3.1.4.64.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.64.1.1

BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage

The request WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
LobSystemDataByLobSystem

```

The SOAP body contains the **GetLobSystemDataByLobSystem** element.

3.1.4.64.1.2

BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage

The response WSDL message for the **GetLobSystemDataByLobSystem** WSDL operation.

The SOAP body contains the **GetLobSystemDataByLobSystemResponse** element.

3.1.4.64.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.64.2.1 **GetLobSystemDataByLobSystem**

The input data for the **GetLobSystemDataByLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemDataByLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q86="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="lobSystemStruct" type="q86:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The LobSystem. The partition (1) of this LobSystem MUST be the partition (1) of the protocol client.

3.1.4.64.2.2 **GetLobSystemDataByLobSystemResponse**

The result data for the **GetLobSystemDataByLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemDataByLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q87="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" maxOccurs="1" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="q87:ProxyGenerationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemDataByLobSystemResult: The information about the Business Logic Modules [64](#) associated with the specified LobSystem.

3.1.4.64.3 Complex Types

None.

3.1.4.64.4 Simple Types

None.

3.1.4.64.5 Attributes

None.

3.1.4.64.6 Groups

None.

3.1.4.64.7 Attribute Groups

None.

3.1.4.65 GetLobSystemInstanceById

The **GetLobSystemInstanceById** operation retrieves the LobSystemInstance with the specified MetadataObjectId.

```
<wsdl:operation name="GetLobSystemInstanceById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceById"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault
_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to modify the LobSystemInstance with the specified MetadataObjectId, and the CameThroughRemoteAdmin Service header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A LobSystemInstance with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.65.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.65.1.1

BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage

The request WSDL message for the **GetLobSystemInstanceById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
LobSystemInstanceById

```

The SOAP body contains the **GetLobSystemInstanceById** element.

3.1.4.65.1.2

BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage

The response WSDL message for the **GetLobSystemInstanceById** WSDL operation.

The SOAP body contains the **GetLobSystemInstanceByIdResponse** element.

3.1.4.65.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.65.2.1 **GetLobSystemInstanceById**

The input data for the **GetLobSystemInstanceById** WSDL operation.

```
<xs:element name="GetLobSystemInstanceById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lobSystemInstanceId"
type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q105="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q105:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemInstanceId: The MetadataObjectId of the LobSystemInstance.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a LobSystemInstance with the specified MetadataObjectId exists. If a LobSystemInstance with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetLobSystemInstanceByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.65.2.2 **GetLobSystemInstanceByIdResponse**

The result data for the **GetLobSystemInstanceById** WSDL operation.

```
<xs:element name="GetLobSystemInstanceByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q106="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetLobSystemInstanceByIdResult" nillable="true" type="q106:LobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemInstanceByIdResult: The LobSystemInstance. The partition (1) of this LobSystemInstance MUST be the partition (1) of the protocol client.


```

edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExcep
tionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullE
xceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").<66>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.<67>

3.1.4.66.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.66.1.1

BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage

The request WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
LobSystemInstancesForLobSystem

```

The SOAP body contains the **GetLobSystemInstancesForLobSystem** element.

3.1.4.66.1.2

BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage

The response WSDL message for the **GetLobSystemInstancesForLobSystem** WSDL operation.

The SOAP body contains the **GetLobSystemInstancesForLobSystemResponse** element.

3.1.4.66.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.66.2.1 GetLobSystemInstancesForLobSystem

The input data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemInstancesForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element xmlns:q103="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q103:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemId: The MetadataObjectId of the LobSystem.

partitionId: The partition (1) of the protocol client.

3.1.4.66.2.2 GetLobSystemInstancesForLobSystemResponse

The result data for the **GetLobSystemInstancesForLobSystem** WSDL operation.

```
<xs:element name="GetLobSystemInstancesForLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q104="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetLobSystemInstancesForLobSystemResult" type="q104:ArrayOfLobSystemInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemInstancesForLobSystemResult: The list of LobSystemInstances of the specified LobSystem. The partition (1) of these **LobSystemInstances** MUST be the partition (1) of the protocol client.

3.1.4.66.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.66.3.1 ArrayOfLobSystemInstanceStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfLobSystemInstanceStruct** complex type contains a list of LobSystemInstances.

```
<xs:complexType name="ArrayOfLobSystemInstanceStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
      nillable="true" type="tns:LobSystemInstanceStruct"/>
  </xs:sequence>
</xs:complexType>
```

LobSystemInstanceStruct: This element contains information about a LobSystemInstance.

3.1.4.66.4 Simple Types

None.

3.1.4.66.5 Attributes

None.

3.1.4.66.6 Groups

None.

3.1.4.66.7 Attribute Groups

None.

3.1.4.67 GetLobSystemProxyAssemblyBytesByLobSystemId

The **GetLobSystemProxyAssemblyBytesByLobSystemId** operation retrieves the implementation-specific Business Logic Module [68](#) associated with the specified LobSystem.

```
<wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

```

name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNullExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOperationExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to read<69> the specified LobSystem, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified LobSystem is set to zero ("0").
InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem has an invalid value for the Property named SystemUtilityTypeName . Validity of this Property is specified in 3.1.4.83.2.2.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.

3.1.4.67.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.67.1.1

BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessage

The request WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemProxyAssemblyBytesByLobSystemId
```

The SOAP body contains the **GetLobSystemProxyAssemblyBytesByLobSystemId** element.

3.1.4.67.1.2

BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMessage

The response WSDL message for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

The SOAP body contains the **GetLobSystemProxyAssemblyBytesByLobSystemIdResponse** element.

3.1.4.67.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.67.2.1 GetLobSystemProxyAssemblyBytesByLobSystemId

The input data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q83="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="lobSystemStruct" type="q83:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The LobSystem from which to retrieve the implementation-specific Business Logic Module. The partition (1) of this LobSystem MUST be the partition (1) of the protocol client.

3.1.4.67.2.2 GetLobSystemProxyAssemblyBytesByLobSystemIdResponse

The result data for the **GetLobSystemProxyAssemblyBytesByLobSystemId** WSDL operation.

```
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1"
name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult" nillable="true"
type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

GetLobSystemProxyAssemblyBytesByLobSystemIdResult: The implementation-specific Business Logic Module [70](#) associated with the specified LobSystem. If more than one Business Logic Module exists for the specified LobSystem, this element MUST contain the first defined Business Logic Module as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.7. If no Business Logic Module is found for the specified LobSystem, this element MUST be NULL.

3.1.4.67.3 Complex Types

None.

3.1.4.67.4 Simple Types

None.

3.1.4.67.5 Attributes

None.

3.1.4.67.6 Groups

None.

3.1.4.67.7 Attribute Groups

None.

3.1.4.68 GetLobSystemsLikeName

The **GetLobSystemsLikeName** operation retrieves the LobSystems that match the specified wildcard pattern.

If the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, only the LobSystems that the security principal (1) in whose context the protocol client is operating is authorized to edit that also match the specified wildcard pattern are retrieved.

An LobSystem matches the wildcard pattern specified by **searchLikeName** if, and only if, **searchLikeName** matches the name of the LobSystem, the localized name of the LobSystem has its language code identifier (LCID) set to zero, or the localized name of the LobSystem has the LCID specified by **callerCultureLcid**.

```

<wsdl:operation name="GetLobSystemsLikeName">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage"/>

```

```

    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFaul
t_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_Fa
ultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_Fa
ultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage** response message, unless the condition in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is invalid.

3.1.4.68.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.68.1.1

BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage

The request WSDL message for the **GetLobSystemsLikeName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsLikeName
```

The SOAP body contains the **GetLobSystemsLikeName** element.

3.1.4.68.1.2

BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage

The response WSDL message for the **GetLobSystemsLikeName** WSDL operation.

The SOAP body contains the **GetLobSystemsLikeNameResponse** element.

3.1.4.68.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.68.2.1 **GetLobSystemsLikeName**

The input data for the **GetLobSystemsLikeName** WSDL operation.

```
<xs:element name="GetLobSystemsLikeName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="searchLikeName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:q95="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q95:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

searchLikeName: The wildcard pattern to be used to retrieve the LobSystems in which the name or localized name matches the wildcard pattern. The following code example shows the ABNF for the **searchLikeName**.

```
searchLikeName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A
```

The protocol server MUST match the name or localized name of the LobSystems with the value of "searchLikeName" when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows.

```
EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = *(%x00-FF)
```

callerCultureLcid: The language code identifier (LCID) representing the locale to be used when retrieving the LobSystems.

partitionId: The partition (1) of the protocol client.

3.1.4.68.2.2 GetLobSystemsLikeNameResponse

The result data for the **GetLobSystemsLikeName** WSDL operation.

```
<xs:element name="GetLobSystemsLikeNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q96="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetLobSystemsLikeNameResult" type="q96:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetLobSystemsLikeNameResult: The list of LobSystems. The partition (1) of these LobSystems MUST be the partition (1) of the protocol client.

3.1.4.68.3 Complex Types

None.

3.1.4.68.4 Simple Types

None.

3.1.4.68.5 Attributes

None.

3.1.4.68.6 Groups

None.

3.1.4.68.7 Attribute Groups

None.

3.1.4.69 GetLobSystemsReferencedByEntitiesAssociatedWithModel

The **GetLobSystemsReferencedByEntitiesAssociatedWithModel** operation retrieves the LobSystems referenced by Entities associated with the specified Model. If the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, only the LobSystems that the security principal (1) in whose context the protocol client is operating is authorized to read [<71>](#) that are also referenced by Entities associated with the specified Model are retrieved.

```

<wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").<72>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist.<73>

3.1.4.69.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.69.1.1

BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_InputMessage

The request WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemsReferencedByEntitiesAssociatedWithModel
```

The SOAP body contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** element.

3.1.4.69.1.2

BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_OutputMessage

The response WSDL message for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

The SOAP body contains the **GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse** element.

3.1.4.69.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.69.2.1 **GetLobSystemsReferencedByEntitiesAssociatedWithModel**

The input data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```
<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="modelId" type="xs:unsignedInt"/>
      <xs:element
        xmlns:q90="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants" minOccurs="1" maxOccurs="1" name="queryMode"
        type="q90:LobSystemConstants.LobSystemsInModelQuery"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

        <xs:element xmlns:q91="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q91:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

modelId: The MetadataObjectId of the specified Model.

queryMode: The mode that specifies the LobSystems to be retrieved. This value MUST be an **LobSystemConstants.LobSystemsInModelQuery** element.

partitionId: The partition (1) of the protocol client.

3.1.4.69.2.2 GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse

The result data for the **GetLobSystemsReferencedByEntitiesAssociatedWithModel** WSDL operation.

```

<xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q92="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult"
type="q92:ArrayOfLobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetLobSystemsReferencedByEntitiesAssociatedWithModelResult: The list of LobSystems. The partition (1) of these LobSystems MUST be the partition (1) of the protocol client.

3.1.4.69.3 Complex Types

None.

3.1.4.69.4 Simple Types

The following XML Schema simple type definitions are specific to this operation.

3.1.4.69.4.1 LobSystemConstants.LobSystemsInModelQuery

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.MetadataModel.Constants>

The **LobSystemConstants.LobSystemsInModelQuery** simple type specifies the mode that determines the LobSystems to be retrieved.

```

<xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllLobSystemsInModel"/>
    <xs:enumeration value="OwnedLobSystemsInModel"/>
    <xs:enumeration value="SharedLobSystemsInModel"/>
  </xs:restriction>
</xs:simpleType>

```

</xs:simpleType>

The following table specifies the allowable values for LobSystemConstants.LobSystemsInModelQuery:

Value	Meaning
AllLobSystemsInModel	All LobSystems referenced by the specified Model.
OwnedLobSystemsInModel	LobSystems referenced only by the specified Model. The returned LobSystems MUST not include LobSystems that are referenced by other Models.
SharedLobSystemsInModel	LobSystems referenced by the specified Model and by other Models. The returned LobSystems MUST not include LobSystems that are referenced only by the specified Model.

3.1.4.69.5 Attributes

None.

3.1.4.69.6 Groups

None.

3.1.4.69.7 Attribute Groups

None.

3.1.4.70 GetMethodById

The **GetMethodById** operation retrieves the Method with the specified MetadataObjectId.

```
<wsdl:operation name="GetMethodById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_
FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessa
ge"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_Fa
ultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Method with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.70.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.70.1.1 BusinessDataCatalogSharedService_GetMethodById_InputMessage

The request WSDL message for the **GetMethodById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
MethodById

```

The SOAP body contains the **GetMethodById** element.

3.1.4.70.1.2 BusinessDataCatalogSharedService_GetMethodById_OutputMessage

The response WSDL message for the **GetMethodById** WSDL operation.

The SOAP body contains the **GetMethodByIdResponse** element.

3.1.4.70.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.70.2.1 GetMethodById

The input data for the **GetMethodById** WSDL operation.

```
<xs:element name="GetMethodById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q156="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q156:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The MetadataObjectId for the Method.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a Method with the specified MetadataObjectId exists. If a Method with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetMethodByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.70.2.2 GetMethodByIdResponse

The result data for the **GetMethodById** WSDL operation.

```
<xs:element name="GetMethodByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q157="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetMethodByIdResult" nillable="true" type="q157:MethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodByIdResult: The Method. The partition (1) of this Method MUST be the partition (1) of the protocol client.

3.1.4.70.3 Complex Types

None.

3.1.4.70.4 Simple Types

None.

3.1.4.70.5 Attributes

None.

3.1.4.70.6 Groups

None.

3.1.4.70.7 Attribute Groups

None.

3.1.4.71 GetMethodInstanceById

The **GetMethodInstanceById** operation retrieves the MethodInstance with the specified MetadataObjectId.

```
<wsdl:operation name="GetMethodInstanceById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceByIdMetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>
```

```

name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A MethodInstance with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.71.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.71.1.1

BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage

The request WSDL message for the **GetMethodInstanceById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstanceById

```

The SOAP body contains the **GetMethodInstanceById** element.

3.1.4.71.1.2

BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage

The response WSDL message for the **GetMethodInstanceById** WSDL operation.

The SOAP body contains the **GetMethodInstanceByIdResponse** element.

3.1.4.71.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.71.2.1 GetMethodInstanceId

The input data for the **GetMethodInstanceId** WSDL operation.

```
<xs:element name="GetMethodInstanceId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="methodInstanceId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q165="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q165:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodInstanceId: The MetadataObjectId of the MethodInstance.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a MethodInstance with the specified MetadataObjectId exists. If a MethodInstance with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetMethodInstanceIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.71.2.2 GetMethodInstanceIdResponse

The result data for the **GetMethodInstanceId** WSDL operation.

```
<xs:element name="GetMethodInstanceIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q166="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetMethodInstanceIdResult" nillable="true" type="q166:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodInstanceIdResult: The MethodInstance. The partition (1) of this MethodInstance MUST be the partition (1) of the protocol client.

3.1.4.71.3 Complex Types

None.

3.1.4.71.4 Simple Types

None.

3.1.4.71.5 Attributes

None.

3.1.4.71.6 Groups

None.

3.1.4.71.7 Attribute Groups

None.

3.1.4.72 GetMethodInstancesForDataClass

The **GetMethodInstancesForDataClass** operation retrieves the MethodInstances contained by the Methods contained by the specified DataClass.

```
<wsdl:operation name="GetMethodInstancesForDataClass">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClass"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClassResponse"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperation
    ExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptio
    nStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
    ptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRan
    geExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStat
    eFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptio
    nFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist. <74>

3.1.4.72.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.72.1.1

BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage

The request WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForDataClass
```

The SOAP body contains the **GetMethodInstancesForDataClass** element.

3.1.4.72.1.2

BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage

The response WSDL message for the **GetMethodInstancesForDataClass** WSDL operation.

The SOAP body contains the **GetMethodInstancesForDataClassResponse** element.

3.1.4.72.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.72.2.1 GetMethodInstancesForDataClass

The input data for the **GetMethodInstancesForDataClass** WSDL operation.

```
<xs:element name="GetMethodInstancesForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:q167="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q167:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

dataClassId: The MetadataObjectId of the DataClass.

partitionId: The partition (1) of the protocol client.

3.1.4.72.2.2 GetMethodInstancesForDataClassResponse

The result data for the **GetMethodInstancesForDataClass** WSDL operation.

```
<xs:element name="GetMethodInstancesForDataClassResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q168="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetMethodInstancesForDataClassResult" type="q168:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodInstancesForDataClassResult: The list of MethodInstances. The partition (1) of these MethodInstances MUST be the partition (1) of the protocol client.

3.1.4.72.3 Complex Types

None.

3.1.4.72.4 Simple Types

None.

3.1.4.72.5 Attributes

None.

3.1.4.72.6 Groups

None.

3.1.4.72.7 Attribute Groups

None.

3.1.4.73 GetMethodInstancesForMethod

The **GetMethodInstancesForMethod** operation retrieves the MethodInstances contained by the specified Method.

```
<wsdl:operation name="GetMethodInstancesForMethod">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/GetMethodInstancesForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExc
eptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionSt
ateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFa
ult_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFa
ult_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Method does not exist. <75>

3.1.4.73.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.73.1.1

BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage

The request WSDL message for the **GetMethodInstancesForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodInstancesForMethod
```

The SOAP body contains the **GetMethodInstancesForMethod** element.

3.1.4.73.1.2

BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage

The response WSDL message for the **GetMethodInstancesForMethod** WSDL operation.

The SOAP body contains the **GetMethodInstancesForMethodResponse** element.

3.1.4.73.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.73.2.1 **GetMethodInstancesForMethod**

The input data for the **GetMethodInstancesForMethod** WSDL operation.

```
<xs:element name="GetMethodInstancesForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:q169="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q169:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodId: The MetadataObjectId of the Method.

partitionId: The partition (1) of the protocol client.

3.1.4.73.2.2 **GetMethodInstancesForMethodResponse**

The result data for the **GetMethodInstancesForMethod** WSDL operation.

```
<xs:element name="GetMethodInstancesForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q170="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetMethodInstancesForMethodResult" type="q170:ArrayOfMethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
```


</xs:element>

GetMethodInstancesForMethodResult: The list of MethodInstances. The partition (1) of each of these **MethodInstances** MUST be the partition (1) of the protocol client.

3.1.4.73.3 Complex Types

None.

3.1.4.73.4 Simple Types

None.

3.1.4.73.5 Attributes

None.

3.1.4.73.6 Groups

None.

3.1.4.73.7 Attribute Groups

None.

3.1.4.74 GetMethodsForDataClass

The **GetMethodsForDataClass** operation retrieves the Methods contained by the specified DataClass.

```
<wsdl:operation name="GetMethodsForDataClass">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShared
```

```

edService/GetMethodsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptio
nFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFa
ult_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFau
lt_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"). <76>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified DataClass does not exist. <77>

3.1.4.74.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.74.1.1

BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage

The request WSDL message for the **GetMethodsForDataClass** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
MethodsForDataClass

```

The SOAP body contains the **GetMethodsForDataClass** element.

3.1.4.74.1.2

BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage

The response WSDL message for the **GetMethodsForDataClass** WSDL operation.

The SOAP body contains the **GetMethodsForDataClassResponse** element.

3.1.4.74.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.74.2.1 GetMethodsForDataClass

The input data for the **GetMethodsForDataClass** WSDL operation.

```
<xs:element name="GetMethodsForDataClass">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"/>
      <xs:element xmlns:q158="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q158:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

dataClassId: The MetadataObjectId of the DataClass.

partitionId: The partition (1) of the protocol client.

3.1.4.74.2.2 GetMethodsForDataClassResponse

The result data for the **GetMethodsForDataClass** WSDL operation.

```
<xs:element name="GetMethodsForDataClassResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q159="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetMethodsForDataClassResult" type="q159:ArrayOfMethodStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetMethodsForDataClassResult: The list of Methods. The partition (1) of these Methods MUST be the partition (1) of the protocol client.

3.1.4.74.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.74.3.1 ArrayOfMethodStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfMethodStruct** complex type contains a list of Methods.

```
<xs:complexType name="ArrayOfMethodStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
type="tns:MethodStruct"/>
  </xs:sequence>
```

</xs:complexType>

MethodStruct: This element contains information about a Method.

3.1.4.74.4 Simple Types

None.

3.1.4.74.5 Attributes

None.

3.1.4.74.6 Groups

None.

3.1.4.74.7 Attribute Groups

None.

3.1.4.75 GetModelById

The **GetModelById** operation retrieves the Model with the specified MetadataObjectId.

```
<wsdl:operation name="GetModelById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById"
    message="tns:BusinessDataCatalogSharedService_GetModelById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetModelById_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetModelById_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Model with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.75.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.75.1.1 BusinessDataCatalogSharedService_GetModelById_InputMessage

The request WSDL message for the **GetModelById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelById

```

The SOAP body contains the **GetModelById** element.

3.1.4.75.1.2 BusinessDataCatalogSharedService_GetModelById_OutputMessage

The response WSDL message for the **GetModelById** WSDL operation.

The SOAP body contains the **GetModelByIdResponse** element.

3.1.4.75.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.75.2.1 GetModelById

The input data for the **GetModelById** WSDL operation.

```
<xs:element name="GetModelById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="modelId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q66="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q66:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelId: The MetadataObjectId of the Model.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a Model with the specified MetadataObjectId exists. If a Model with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetModelByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.75.2.2 GetModelByIdResponse

The result data for the **GetModelById** WSDL operation.

```
<xs:element name="GetModelByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q67="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetModelByIdResult" nillable="true" type="q67:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelByIdResult: The Model. The partition (1) of this Model MUST be the partition (1) of the protocol client.

3.1.4.75.3 Complex Types

None.

3.1.4.75.4 Simple Types

None.

3.1.4.75.5 Attributes

None.

3.1.4.75.6 Groups

None.

3.1.4.75.7 Attribute Groups

None.

3.1.4.76 GetModelByName

The **GetModelByName** operation retrieves the specified Model.

```
<wsdl:operation name="GetModelByName">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameResponse"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelByName_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified name exceeds 255 characters.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model does not exist.

3.1.4.76.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.76.1.1

BusinessDataCatalogSharedService_GetModelByName_InputMessage

The request WSDL message for the **GetModelByName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelByName
```

The SOAP body contains the **GetModelByName** element.

3.1.4.76.1.2

BusinessDataCatalogSharedService_GetModelByName_OutputMessage

The response WSDL message for the **GetModelByName** WSDL operation.

The SOAP body contains the **GetModelByNameResponse** element.

3.1.4.76.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.76.2.1 GetModelByName

The input data for the **GetModelByName** WSDL operation.

```
<xs:element name="GetModelByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string"/>
      <xs:element xmlns:q70="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q70:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the Model.

partitionId: The partition (1) of the protocol client.

3.1.4.76.2.2 GetModelByNameResponse

The result data for the **GetModelByName** WSDL operation.

```
<xs:element name="GetModelByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q71="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetModelByNameResult" type="q71:ModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelByNameResult: The Model. The partition (1) of this Model MUST be the partition (1) of the protocol client.

3.1.4.76.3 Complex Types

None.

3.1.4.76.4 Simple Types

None.

3.1.4.76.5 Attributes

None.

3.1.4.76.6 Groups

None.

3.1.4.76.7 Attribute Groups

None.

3.1.4.77 GetModelsByEntityId

The **GetModelsByEntityId** operation retrieves the Models that reference the specified Entity.

```
<wsdl:operation name="GetModelsByEntityId">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeException
Fault_FaultMessage"/>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_Faul
tMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFa
ult_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault
_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_Faul
tMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_
FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist. <78>

3.1.4.77.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.77.1.1

BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage

The request WSDL message for the **GetModelsByEntityId** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByEntityId>

The SOAP body contains the **GetModelsByEntityId** element.

3.1.4.77.1.2

BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage

The response WSDL message for the **GetModelsByEntityId** WSDL operation.

The SOAP body contains the **GetModelsByEntityIdResponse** element.

3.1.4.77.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.77.2.1 **GetModelsByEntityId**

The input data for the **GetModelsByEntityId** WSDL operation.

```
<xs:element name="GetModelsByEntityId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"/>
      <xs:element xmlns:q72="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q72:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityId: The MetadataObjectId of the Entity.

partitionId: The partition (1) of the protocol client.

3.1.4.77.2.2 **GetModelsByEntityIdResponse**

The result data for the **GetModelsByEntityId** WSDL operation.

```
<xs:element name="GetModelsByEntityIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q73="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetModelsByEntityIdResult" type="q73:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetModelsByEntityIdResult: The list of Models. The partition (1) of these Models MUST be the partition (1) of the protocol client.

3.1.4.77.3 Complex Types

None.

3.1.4.77.4 Simple Types

None.

3.1.4.77.5 Attributes

None.

3.1.4.77.6 Groups

None.

3.1.4.77.7 Attribute Groups

None.

3.1.4.78 GetModelsByName

The **GetModelsByName** operation retrieves the Models that match the specified wildcard pattern.

A Model matches the wildcard pattern specified by **wildcardedName** if, and only if, **wildcardedName** matches the name of the Model, the localized name of the Model has its LCID set to zero, or the localized name of the Model has the LCID specified by **callerCultureLcid**.

```
<wsdl:operation name="GetModelsByName">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameResponse"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```

```

    <wsdl:fault
      wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
      message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessage"/>
  </wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetModelsByName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetModelsByName_OutputMessage** response message, unless the condition in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The length of the specified wildcard pattern exceeds 255 characters, or the format of the specified wildcard pattern is invalid.

3.1.4.78.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.78.1.1

BusinessDataCatalogSharedService_GetModelsByName_InputMessage

The request WSDL message for the **GetModelsByName** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetModelsByName

```

The SOAP body contains the **GetModelsByName** element.

3.1.4.78.1.2

BusinessDataCatalogSharedService_GetModelsByName_OutputMessage

The response WSDL message for the **GetModelsByName** WSDL operation.

The SOAP body contains the **GetModelsByNameResponse** element.

3.1.4.78.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.78.2.1 GetModelsByName

The input data for the **GetModelsByName** WSDL operation.

```

<xs:element name="GetModelsByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="wildcardedName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
      <xs:element xmlns:q68="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q68:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

wildcardedName: The wildcard pattern to be used to retrieve the Models whose name or localized name matches the wildcard pattern. The following code example shows the ABNF for the **wildcardedName**.

```

wildcardedName = 1 * (Literal / Escape / Wildcard)
Literal = %x00-29 / %x2B-5B / %x5D-FF
Wildcard = %x2A
Escape = EscapeBackSlash / EscapeWildcard
EscapeBackSlash = %x5C %x5C
EscapeWildcard = %x5C %x2A

```

The protocol server **MUST** match the name or localized name of the Models with the value of **wildcardedName** when the **EscapeBackSlash**, **EscapeWildcard**, and **Wildcard** rules are changed as follows.

```

EscapeBackSlash = %x5C
EscapeWildcard = %x2A
Wildcard = * (%x00-FF)

```

callerCultureLcid: The language code identifier (LCID) representing the locale to be used when retrieving the Models.

partitionId: The partition (1) of the protocol client.

3.1.4.78.2.2 GetModelsByNameResponse

The result data for the **GetModelsByName** WSDL operation.

```

<xs:element name="GetModelsByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q69="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetModelsByNameResult" type="q69:ArrayOfModelStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetModelsByNameResult: The list of Models. The partition (1) of these Models **MUST** be the partition (1) of the protocol client.

3.1.4.78.3 Complex Types

None.

3.1.4.78.4 Simple Types

None.

3.1.4.78.5 Attributes

None.

3.1.4.78.6 Groups

None.

3.1.4.78.7 Attribute Groups

None.

3.1.4.79 GetParameterById

The **GetParameterById** operation retrieves the Parameter with the specified MetadataObjectId.

```
<wsdl:operation name="GetParameterById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetParameterById"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetParameterByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMe
    ssage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fau
    ltMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFau
    lt_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMe
    ssage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/GetParameterByIdInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault
    _FaultMessage"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_Fa
ultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetParameterById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetParameterById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A Parameter with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is set to "TRUE".

3.1.4.79.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.79.1.1

BusinessDataCatalogSharedService_GetParameterById_InputMessage

The request WSDL message for the **GetParameterById** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
ParameterById

```

The SOAP body contains the **GetParameterById** element.

3.1.4.79.1.2

BusinessDataCatalogSharedService_GetParameterById_OutputMessage

The response WSDL message for the **GetParameterById** WSDL operation.

The SOAP body contains the **GetParameterByIdResponse** element.

3.1.4.79.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.79.2.1 GetParameterById

The input data for the **GetParameterById** WSDL operation.

```
<xs:element name="GetParameterById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q173="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q173:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterId: The MetadataObjectId of the Parameter.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a Parameter with the specified MetadataObjectId exists. If a Parameter with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetParameterByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.79.2.2 GetParameterByIdResponse

The result data for the **GetParameterById** WSDL operation.

```
<xs:element name="GetParameterByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q174="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetParameterByIdResult" nillable="true" type="q174:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetParameterByIdResult: The Parameter. The partition (1) of this Parameter MUST be the partition (1) of the protocol client.

3.1.4.79.3 Complex Types

None.

3.1.4.79.4 Simple Types

None.

3.1.4.79.5 Attributes

None.

3.1.4.79.6 Groups

None.

3.1.4.79.7 Attribute Groups

None.

3.1.4.80 GetParametersForMethod

The **GetParametersForMethod** operation retrieves the Parameters of the specified Method.

```
<wsdl:operation name="GetParametersForMethod">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethod"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptio
nFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").<79>
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Method does not exist.<80>

3.1.4.80.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.80.1.1

BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage

The request WSDL message for the **GetParametersForMethod** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetParametersForMethod
```

The SOAP body contains the **GetParametersForMethod** element.

3.1.4.80.1.2

BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage

The response WSDL message for the **GetParametersForMethod** WSDL operation.

The SOAP body contains the **GetParametersForMethodResponse** element.

3.1.4.80.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.80.2.1 GetParametersForMethod

The input data for the **GetParametersForMethod** WSDL operation.

```
<xs:element name="GetParametersForMethod">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt"/>
      <xs:element xmlns:q175="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q175:guid"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

methodId: The MetadataObjectId of the Method.

partitionId: The partition (1) of the protocol client.

3.1.4.80.2.2 GetParametersForMethodResponse

The result data for the **GetParametersForMethod** WSDL operation.

```
<xs:element name="GetParametersForMethodResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q176="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetParametersForMethodResult" type="q176:ArrayOfParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetParametersForMethodResult: The list of Parameters. The partition (1) of these Parameters MUST be the partition (1) of the protocol client.

3.1.4.80.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.80.3.1 ArrayOfParameterStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfParameterStruct** complex type contains a list of Parameters.

```
<xs:complexType name="ArrayOfParameterStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct" nillable="true"
type="tns:ParameterStruct"/>
  </xs:sequence>
</xs:complexType>
```

ParameterStruct: A Parameter.

3.1.4.80.4 Simple Types

None.

3.1.4.80.5 Attributes

None.

3.1.4.80.6 Groups

None.

3.1.4.80.7 Attribute Groups

None.

3.1.4.81 GetRootTypeDescriptorForParameter

The **GetRootTypeDescriptorForParameter** operation retrieves the root TypeDescriptor of the specified Parameter.

```
<wsdl:operation name="GetRootTypeDescriptorForParameter">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
  />
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterResponse"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Parameter does not exist.

3.1.4.81.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.81.1.1

BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_Input Message

The request WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetRootTypeDescriptorForParameter
```

The SOAP body contains the **GetRootTypeDescriptorForParameter** element.

3.1.4.81.1.2

BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage

The response WSDL message for the **GetRootTypeDescriptorForParameter** WSDL operation.

The SOAP body contains the **GetRootTypeDescriptorForParameterResponse** element.

3.1.4.81.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.81.2.1 GetRootTypeDescriptorForParameter

The input data for the **GetRootTypeDescriptorForParameter** WSDL operation.

```
<xs:element name="GetRootTypeDescriptorForParameter">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

        <xs:element xmlns:q185="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q185:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

parameterId: The MetadataObjectId of the Parameter.

partitionId: The partition (1) of the protocol client.

3.1.4.81.2.2 GetRootTypeDescriptorForParameterResponse

The result data for the **GetRootTypeDescriptorForParameter** WSDL operation.

```

<xs:element name="GetRootTypeDescriptorForParameterResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q186="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetRootTypeDescriptorForParameterResult" type="q186:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetRootTypeDescriptorForParameterResult: The root TypeDescriptor of the Parameter. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client.

3.1.4.81.3 Complex Types

None.

3.1.4.81.4 Simple Types

None.

3.1.4.81.5 Attributes

None.

3.1.4.81.6 Groups

None.

3.1.4.81.7 Attribute Groups

None.

3.1.4.82 GetServiceApplicationId

The **GetServiceApplicationId** operation retrieves the unique implementation-specific identifier of a metadata store.

```

<wsdl:operation name="GetServiceApplicationId">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/GetServiceApplicationId"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationIdResponse"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage** response message.

3.1.4.82.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.82.1.1

BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage

The request WSDL message for the **GetServiceApplicationId** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
ServiceApplicationId

```

The SOAP body contains the **GetServiceApplicationId** element.

3.1.4.82.1.2

BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage

The response WSDL message for the **GetServiceApplicationId** WSDL operation.

The SOAP body contains the **GetServiceApplicationIdResponse** element.

3.1.4.82.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.82.2.1 GetServiceApplicationId

The input data for the **GetServiceApplicationId** WSDL operation.

```

<xs:element name="GetServiceApplicationId">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.82.2.2 GetServiceApplicationIdResponse

The result data for the **GetServiceApplicationId** WSDL operation.


```

<xs:element name="GetServiceApplicationIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="GetServiceApplicationIdResult" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetServiceApplicationIdResult: The unique implementation-specific identifier of a metadata store. The value of the identifier MUST be a GUID.

3.1.4.82.3 Complex Types

None.

3.1.4.82.4 Simple Types

None.

3.1.4.82.5 Attributes

None.

3.1.4.82.6 Groups

None.

3.1.4.82.7 Attribute Groups

None.

3.1.4.83 GetSystemUtilityTypeNameForLobSystem

The **GetSystemUtilityTypeNameForLobSystem** operation retrieves the implementation-specific identifier of the module that executes operations in the line-of-business (LOB) system corresponding to the specified LobSystem.

```

<wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessa
ge"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMess
age"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOpe
rationExceptionFault_FaultMessage"/>

```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentEx
ceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOu
tOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExcepti
onStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataEx
ceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNu
llExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The module cannot be found or loaded.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero "0".
InvalidMetadataPropertyExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem has an invalid value for the Property named SystemUtilityTypeName . Validity of this Property is specified in section 3.1.4.83.2.2.

3.1.4.83.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.83.1.1

BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage

The request WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetSystemUtilityTypeNameForLobSystem
```

The SOAP body contains the **GetSystemUtilityTypeNameForLobSystem** element.

3.1.4.83.1.2

BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage

The response WSDL message for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

The SOAP body contains the **GetSystemUtilityTypeNameForLobSystemResponse** element.

3.1.4.83.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.83.2.1 **GetSystemUtilityTypeNameForLobSystem**

The input data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystem">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q100="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="lobSystemStruct" type="q100:LobSystemStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

lobSystemStruct: The LobSystem.

3.1.4.83.2.2 **GetSystemUtilityTypeNameForLobSystemResponse**

The result data for the **GetSystemUtilityTypeNameForLobSystem** WSDL operation.

```
<xs:element name="GetSystemUtilityTypeNameForLobSystemResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1"
name="GetSystemUtilityTypeNameForLobSystemResult" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetSystemUtilityTypeNameForLobSystemResult: The implementation-specific<81> identifier of the module that runs operations in the line-of-business (LOB) system.

3.1.4.83.3 Complex Types

None.

3.1.4.83.4 Simple Types

None.

3.1.4.83.5 Attributes

None.

3.1.4.83.6 Groups

None.

3.1.4.83.7 Attribute Groups

None.

3.1.4.84 GetThrottlingRules

The **GetThrottlingRules** operation retrieves all throttle configuration settings used by the protocol server.

```
<wsdl:operation name="GetThrottlingRules">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesResponse"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage** response message.

3.1.4.84.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.84.1.1

BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage

The request WSDL message for the **GetThrottlingRules** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetThrottlingRules
```

The SOAP body contains the **GetThrottlingRules** element.

3.1.4.84.1.2

BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage

The response WSDL message for the **GetThrottlingRules** WSDL operation.

The SOAP body contains the **GetThrottlingRulesResponse** element.

3.1.4.84.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.84.2.1 GetThrottlingRules

The input data for the **GetThrottlingRules** WSDL operation.

```
<xs:element name="GetThrottlingRules">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.84.2.2 GetThrottlingRulesResponse

The result data for the **GetThrottlingRules** WSDL operation.

```
<xs:element name="GetThrottlingRulesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q223="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetThrottlingRulesResult" type="q223:ArrayOfSafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

GetThrottlingRulesResult: The list of throttle configuration settings.

3.1.4.84.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.1.4.84.3.1 ArrayOfSafetyNetStruct

Namespace: Microsoft.SharePoint.BusinessData

The **ArrayOfSafetyNetStruct** complex type contains a list of throttle configuration settings.

```
<xs:complexType name="ArrayOfSafetyNetStruct">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct" nillable="true"
      type="tns:SafetyNetStruct"/>
  </xs:sequence>
</xs:complexType>
```

SafetyNetStruct: A throttle configuration setting.

3.1.4.84.4 Simple Types

None.

3.1.4.84.5 Attributes

None.

3.1.4.84.6 Groups

None.

3.1.4.84.7 Attribute Groups

None.

3.1.4.85 GetTypeDescriptorById

The **GetTypeDescriptorById** operation retrieves the TypeDescriptor with the specified MetadataObjectId.

```
<wsdl:operation name="GetTypeDescriptorById">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById"
    message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorByIdResponse"
    message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage"/>
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_Fa
ultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFau
lt_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExcepti
onFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationException
Fault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_Fa
ultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding server error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	A TypeDescriptor with the specified MetadataObjectId does not exist in the partition (1) of the protocol client, and the value of the performErrorCheck element is "TRUE".

3.1.4.85.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.85.1.1

BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage

The request WSDL message for the **GetTypeDescriptorById** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorById
```

The SOAP body contains the **GetTypeDescriptorById** element.

3.1.4.85.1.2

BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage

The response WSDL message for the **GetTypeDescriptorById** WSDL operation.

The SOAP body contains the **GetTypeDescriptorByIdResponse** element.

3.1.4.85.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.85.2.1 GetTypeDescriptorById

The input data for the **GetTypeDescriptorById** WSDL operation.

```
<xs:element name="GetTypeDescriptorById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="typeDescriptorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck" type="xs:boolean"/>
      <xs:element xmlns:q183="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q183:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

typeDescriptorId: The MetadataObjectId of the TypeDescriptor.

performErrorCheck: The value of this element MUST be ignored by the protocol server if a TypeDescriptor with the specified MetadataObjectId exists. If a TypeDescriptor with the specified MetadataObjectId does not exist and this element is set to FALSE, the protocol server MUST set the value of the **GetTypeDescriptorByIdResult** element to NULL.

partitionId: The partition (1) of the protocol client.

3.1.4.85.2.2 GetTypeDescriptorByIdResponse

The result data for the **GetTypeDescriptorById** WSDL operation.


```

<xs:element name="GetTypeDescriptorByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q184="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="GetTypeDescriptorByIdResult" nillable="true" type="q184:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetTypeDescriptorByIdResult: The TypeDescriptor. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client.

3.1.4.85.3 Complex Types

None.

3.1.4.85.4 Simple Types

None.

3.1.4.85.5 Attributes

None.

3.1.4.85.6 Groups

None.

3.1.4.85.7 Attribute Groups

None.

3.1.4.86 GetTypeDescriptorsByNameAndLevelForParameter

The **GetTypeDescriptorsByNameAndLevelForParameter** operation retrieves the TypeDescriptors with the specified name and level contained by the specified Parameter. The level of a TypeDescriptor is defined as follows:

- The level of the root TypeDescriptor is set to zero ("0").
- The level of the specified TypeDescriptor is 1 plus the level of the TypeDescriptor containing the specified TypeDescriptor.

```

<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameterFault"/>
</wsdl:operation>

```

```

logSharedService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParam
eter_BdcExceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCata
logSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault
" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParam
eter_ArgumentNullExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCata
logSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionExcepi
onFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParam
eter_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCata
logSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParam
eter_ArgumentExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCata
logSharedService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionExcepi
onFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParam
eter_InvalidOperationExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCata
logSharedService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFaul
t" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParam
eter_MetadataExceptionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_I
nputMessage** request message, and the protocol server MUST respond with a
**BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_O
utputMessage** response message, unless the condition in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId is set to zero ("0"), or the specified level is less than zero.

3.1.4.86.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.86.1.1

BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMessage

The request WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameter
```

The SOAP body contains the **GetTypeDescriptorsByNameAndLevelForParameter** element.

3.1.4.86.1.2

BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMessage

The response WSDL message for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

The SOAP body contains the **GetTypeDescriptorsByNameAndLevelForParameterResponse** element.

3.1.4.86.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.86.2.1 **GetTypeDescriptorsByNameAndLevelForParameter**

The input data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="level" type="xs:int"/>
      <xs:element xmlns:q187="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q187:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

name: The name of the TypeDescriptors that are retrieved.

parameterId: The MetadataObjectId of the Parameter.

level: The level of the TypeDescriptors that are retrieved.

partitionId: The partition (1) of the protocol client.

3.1.4.86.2.2 GetTypeDescriptorsByNameAndLevelForParameterResponse

The result data for the **GetTypeDescriptorsByNameAndLevelForParameter** WSDL operation.

```
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q188="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="GetTypeDescriptorsByNameAndLevelForParameterResult"
type="q188:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeDescriptorsByNameAndLevelForParameterResult: The list of TypeDescriptors. The partition (1) of each of these TypeDescriptors MUST be the partition (1) of the protocol client.

3.1.4.86.3 Complex Types

None.

3.1.4.86.4 Simple Types

None.

3.1.4.86.5 Attributes

None.

3.1.4.86.6 Groups

None.

3.1.4.86.7 Attribute Groups

None.

3.1.4.87 GetTypeDescriptorsForFilterDescriptor

The **GetTypeDescriptorsForFilterDescriptor** operation retrieves TypeDescriptors referenced by the specified FilterDescriptor.

```
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptor"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMess
age"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMes
sage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
```

```

name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataE
xceptionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentE
xceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentN
ullExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentO
utOfRangeExceptionFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExcept
ionStateFault_FaultMessage"/>
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOp
erationExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage** response message, unless the condition in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObjectId of the FilterDescriptor is set to zero ("0").

3.1.4.87.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.87.1.1

BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage

The request WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor
```

The SOAP body contains the **GetTypeDescriptorsForFilterDescriptor** element.

3.1.4.87.1.2

BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage

The response WSDL message for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

The SOAP body contains the **GetTypeDescriptorsForFilterDescriptorResponse** element.

3.1.4.87.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.87.2.1 **GetTypeDescriptorsForFilterDescriptor**

The input data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

```
<xs:element name="GetTypeDescriptorsForFilterDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="filterDescriptorId"
        type="xs:unsignedInt"/>
      <xs:element xmlns:q191="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="1" maxOccurs="1" name="partitionId" type="q191:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

filterDescriptorId: The MetadataObjectId of the FilterDescriptor.

partitionId: The partition (1) of the protocol client.

3.1.4.87.2.2 **GetTypeDescriptorsForFilterDescriptorResponse**

The result data for the **GetTypeDescriptorsForFilterDescriptor** WSDL operation.

```
<xs:element name="GetTypeDescriptorsForFilterDescriptorResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q192="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
        name="GetTypeDescriptorsForFilterDescriptorResult" type="q192:ArrayOfTypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeDescriptorsForFilterDescriptorResult: The list of TypeDescriptors that are referenced by the specified FilterDescriptor. The partition (1) of these TypeDescriptors MUST be the partition (1) of the protocol client.

3.1.4.87.3 Complex Types

None.

3.1.4.87.4 Simple Types

None.

3.1.4.87.5 Attributes

None.

3.1.4.87.6 Groups

None.

3.1.4.87.7 Attribute Groups

None.

3.1.4.88 GetTypeReflectorTypeNameForParameter

The **GetTypeReflectorTypeNameForParameter** operation retrieves the implementation-specific name of the type of the TypeReflector of the specified Parameter.

```
<wsdl:operation name="GetTypeReflectorTypeNameForParameter">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameter"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"/>
```

```

message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOu
tOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExcepti
onStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOpe
rationExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage** response message, unless the condition in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified Parameter is set to zero ("0").

3.1.4.88.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.88.1.1

BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage

The request WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Get
TypeReflectorTypeNameForParameter

```

The SOAP body contains the **GetTypeReflectorTypeNameForParameter** element.

3.1.4.88.1.2

BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage

The response WSDL message for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

The SOAP body contains the **GetTypeReflectorTypeNameForParameterResponse** element.

3.1.4.88.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.88.2.1 GetTypeReflectorTypeNameForParameter

The input data for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```
<xs:element name="GetTypeReflectorTypeNameForParameter">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q178="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="parameterStruct" type="q178:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterStruct: The Parameter whose name is to be retrieved by the TypeReflector. The partition (1) of this Parameter MUST be the partition (1) of the protocol client.

3.1.4.88.2.2 GetTypeReflectorTypeNameForParameterResponse

The result data for the **GetTypeReflectorTypeNameForParameter** WSDL operation.

```
<xs:element name="GetTypeReflectorTypeNameForParameterResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1"
name="GetTypeReflectorTypeNameForParameterResult" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTypeReflectorTypeNameForParameterResult: The implementation-specific name of the type of the TypeReflector of the specified Parameter.

3.1.4.88.3 Complex Types

None.

3.1.4.88.4 Simple Types

None.

3.1.4.88.5 Attributes

None.

3.1.4.88.6 Groups

None.

3.1.4.88.7 Attribute Groups

None.

3.1.4.89 GetXmlSchemaForView

The **GetXmlSchemaForView** operation is obsolete and MUST NOT be used.

```
<wsdl:operation name="GetXmlSchemaForView">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewResponse"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

3.1.4.89.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.89.1.1

BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage

The request WSDL message for the **GetXmlSchemaForView** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetXmlSchemaForView
```

The SOAP body contains the **GetXmlSchemaForView** element.

3.1.4.89.1.2

BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage

The response WSDL message for the **GetXmlSchemaForView** WSDL operation.

The SOAP body contains the **GetXmlSchemaForViewResponse** element.

3.1.4.89.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.89.2.1 **GetXmlSchemaForView**

The input data for the **GetXmlSchemaForView** WSDL operation.

```
<xs:element name="GetXmlSchemaForView">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q238="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="methodInstanceStruct" type="q238:MethodInstanceStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

methodInstanceStruct:

3.1.4.89.2.2 **GetXmlSchemaForViewResponse**

The result data for the **GetXmlSchemaForView** WSDL operation.

```
<xs:element name="GetXmlSchemaForViewResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetXmlSchemaForViewResult"
nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetXmlSchemaForViewResult:

3.1.4.89.3 Complex Types

None.

3.1.4.89.4 Simple Types

None.

3.1.4.89.5 Attributes

None.

3.1.4.89.6 Groups

None.

3.1.4.89.7 Attribute Groups

None.

3.1.4.90 HaveRights

The **HaveRights** operation retrieves whether the security principal (1) in whose context the protocol client is operating has the specified permission on the specified **MetadataObject** based on the permissions specified by the access control entries in the specified **Setting** associated with the specified **MetadataObject**.

```
<wsdl:operation name="HaveRights">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights"
    message="tns:BusinessDataCatalogSharedService_HaveRights_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsResponse"
    message="tns:BusinessDataCatalogSharedService_HaveRights_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
  />
```

```

message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_HaveRights_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_HaveRights_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified MetadataObject is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.90.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.90.1.1 BusinessDataCatalogSharedService_HaveRights_InputMessage

The request WSDL message for the **HaveRights** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/HaveRights

```

The SOAP body contains the **HaveRights** element.

3.1.4.90.1.2 BusinessDataCatalogSharedService_HaveRights_OutputMessage

The response WSDL message for the **HaveRights** WSDL operation.

The SOAP body contains the **HaveRightsResponse** element.

3.1.4.90.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.90.2.1 HaveRights

The input data for the **HaveRights** WSDL operation.

```

<xs:element name="HaveRights">
  <xs:complexType>

```

```

<xs:sequence>
  <xs:element xmlns:q10="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q10:MetadataObjectStruct"/>
  <xs:element
xmlns:q11="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="1" maxOccurs="1" name="rights" type="q11:BdcRights"/>
  <xs:element minOccurs="1" maxOccurs="1" name="fallBack" type="xs:boolean"/>
  <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

rights: The permission to check.

fallBack: When the value of this element is TRUE the protocol server MUST use the access control entries in the default Setting for the specified MetadataObject if there are no access control entries exist in the specified Setting for the specified MetadataObject.

settingId: The Setting which contains the access control entries. If the value of this element is NULL the protocol server MUST use the access control entries contained by the default Setting.

3.1.4.90.2 HaveRightsResponse

The result data for the **HaveRights** WSDL operation.

```

<xs:element name="HaveRightsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="HaveRightsResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

HaveRightsResult: If the security principal (1) in whose context the protocol client is operating has the specified permissions, this value MUST be set to TRUE. Otherwise, this value MUST be set to FALSE.

3.1.4.90.3 Complex Types

None.

3.1.4.90.4 Simple Types

The following XML Schema simple type definitions are specific to this operation.

3.1.4.90.4.1 BdcRights

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure

The **BdcRights** simple type represents a permission a given security principal (1) can have on a MetadataObject.

```

<xs:simpleType name="BdcRights">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Execute"/>
        <xs:enumeration value="Edit"/>
        <xs:enumeration value="SetPermissions"/>
        <xs:enumeration value="UseInBusinessDataInLists"/>
        <xs:enumeration value="SelectableInClients"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>

```

The following table specifies the allowable values for BdcRights:

Value	Meaning
None	No permissions.
Execute	The security principal (1) has the permission to invoke a MethodInstance.
Edit	The security principal (1) has permission to change the attributes of a MetadataObject or its relationship to other MetadataObjects.
SetPermissions	The security principal (1) has permission to change the set of permissions for a MetadataObject.
UseInBusinessDataInLists	This value is obsolete and MUST NOT be used.
SelectableInClients	The security principal (1) has permission to select the MetadataObject this permission refers to in an implementation-specific user interface from a list of available MetadataObjects. If the security principal does not have this permission, the MetadataObject SHOULD NOT be presented in such a list.

3.1.4.90.5 Attributes

None.

3.1.4.90.6 Groups

None.

3.1.4.90.7 Attribute Groups

None.

3.1.4.91 ImportPackage

The **ImportPackage** operation creates the following objects in the metadata store:

- MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and access control entries (ACEs), if the "Model" value is specified for the **packageContents** element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#)

Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the specified MetadataModel, if the "Model" value is not specified for the **packageContents** element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.1.

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```

logSharedService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ImportPackage_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ImportPackage_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises an [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to create or modify the specified Model.

This operation raises a [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error under any of the following conditions:

- The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.1.4.1.
- The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.2.4.1.
- The **updateModel** element is set to "FALSE", the "Model" value is specified for the **packageContents** element, and there is already another Model with the same name as the Model contained by the MetadataModel in the specified partition (1).
- The **updateModel** element is set to "TRUE", the "Model" value is specified for the **packageContents** element, and the Model contained by the MetadataModel does not exist in the specified partition (1).
- The "Model" value is not specified for the **packageContents** element, and at least one of the MetadataObjects contained by the MetadataModel does not exist in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the LobSystems contained by the MetadataModel has the same name as a LobSystem in the metadata store. However, the LobSystem contained by the MetadataModel has a different type than the LobSystem in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the Entities contained by the MetadataModel has the same name, namespace, and version as an Entity in the metadata store. However, the names of the LobSystems that contain these Entities are different.
- The "InlineProxies" value is specified for the **packageContents** element, and the specified MetadataModel contains a LobSystem with an associated Business Logic Module.

- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a Method that contains more than one FilterDescriptor of type TimestampFilter.
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a StreamAccessor that specifies ReturnPropertyDescriptor that contains other TypeDescriptors.
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a StreamAccessor and the TypeDescriptor containing the ReturnPropertyDescriptor of this MethodInstance contains another TypeDescriptor under its parent TypeDescriptor, and the LobSystem containing the Entity which contains this StreamAccessor has type specified as "Database".
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this MethodInstance is one of the following values:
 - "AccessChecker"
 - "AssociationNavigator"
 - "Associator"
 - "BinarySecurityDescriptorAccessor"
 - "BulkAssociatedIdEnumerator"
 - "BulkAssociationNavigator"
 - "BulkIdEnumerator"
 - "BulkSpecificFinder"
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"
 - "Deleter"
 - "Disassociator"
 - "SpecificFinder"
 - "Updater"
 - "StreamAccessor"
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a MethodInstance, the Method containing this MethodInstance does not contain a TimestampFilter and the type of this MethodInstance is one of the following values:
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"

3.1.4.91.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.91.1.1 BusinessDataCatalogSharedService_ImportPackage_InputMessage

The request WSDL message for the **ImportPackage** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackage
```

The SOAP body contains the **ImportPackage** element.

3.1.4.91.1.2 BusinessDataCatalogSharedService_ImportPackage_OutputMessage

The response WSDL message for the **ImportPackage** WSDL operation.

The SOAP body contains the **ImportPackageResponse** element.

3.1.4.91.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.91.2.1 ImportPackage

The input data for the **ImportPackage** WSDL operation.

```
<xs:element name="ImportPackage">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q53="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q53:PackageContents"/>
      <xs:element xmlns:q54="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="adminStruct" type="q54:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The XML representation of the MetadataModel that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the MetadataModel is to be created. The protocol server MUST use the following rules:

- If the "Model" value is specified, this operation MUST create MetadataObjects in the metadata store. The protocol server MUST set all Entities contained by the specified MetadataModel to active. If any of the Entities contain reference errors as specified in section [3.1.4.5.3.2](#), the protocol server MUST NOT set any Entity contained by the specified MetadataModel as active.

- If the "Model" value is not specified, the protocol server MUST NOT create any MetadataObjects.
- If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding MetadataObjects. If the metadata store already contains a Property with the same name in the specified Setting for the MetadataObject, the Property in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified MetadataModel.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding MetadataObjects. If the metadata store already contains a localized name with the same LCID in the specified Setting for the MetadataObject, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified MetadataModel.
- If the "Permissions" value is specified, the protocol server MUST delete access control entries in the metadata store for the corresponding MetadataObjects and create the specified access control entries for the corresponding MetadataObjects.
- If the "Permissions" value is not specified, the protocol server MUST ignore access control entries in the specified MetadataModel.

adminStruct: The MetadataCatalog that contains the Model contained by the MetadataModel. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the Model in the specified MetadataCatalog. The partition (1) of this MetadataCatalog MUST be the partition (1) of the protocol client.

settingId: The Setting in which to create the Properties, localized names, and access control entries.

callerCultureLcid: Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies whether the Model contained by the MetadataModel already exists in the metadata store. If this element is set to TRUE, the protocol server MUST remove all Entity references from the Model. Then, the protocol server MUST create Entity references in the Model to all the Entities contained by the specified MetadataModel. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

3.1.4.91.2.2 ImportPackageResponse

The result data for the **ImportPackage** WSDL operation.

```
<xs:element name="ImportPackageResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q55="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="ImportPackageResult" type="q55:ModelStruct"/>
      <xs:element xmlns:q56="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q56:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

ImportPackageResult: The Model from the metadata store that corresponds to the specified MetadataModel.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.91.3 Complex Types

None.

3.1.4.91.4 Simple Types

None.

3.1.4.91.5 Attributes

None.

3.1.4.91.6 Groups

None.

3.1.4.91.7 Attribute Groups

None.

3.1.4.92 ImportPackageWithProgress

The **ImportPackageWithProgress** operation creates the following objects in the metadata store:

- MetadataObjects contained by the specified MetadataModel, along with their Properties, localized names, and access control entries (ACEs), if the "Model" value is specified for the **packageContents** element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.1.4.1. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystemInstances contained by that LobSystem along with Properties, localized names, and access control entries of the ignored MetadataObjects. If the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store, and if the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by the Entity or other ignored MetadataObjects, along with the Properties, localized names, and access control entries of the ignored MetadataObjects.
- Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the specified MetadataModel, if the "Model" value is not specified for the **packageContents** element. The MetadataModel MUST be specified as an XML element that conforms to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.2.4.1.

The protocol server **MUST** track the progress of this operation with the specified identifier. The protocol client can retrieve the progress of this operation by using the [GetImportProgress](#) operation with the specified identifier.

```
<wsdl:operation name="ImportPackageWithProgress">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressResponse"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage** request message, and the protocol server **MUST** respond with a **BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises an [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to create or modify the specified Model.

This operation raises a [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under any of the following conditions:

- The "Model" value is specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.1.4.1.
- The "Model" value is not specified for the **packageContents** element, and the specified XML does not conform to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.2.4.1.
- The **updateModel** element is set to "FALSE", the "Model" value is specified for the **packageContents** element, and there is already another Model with the same name as the Model contained by the MetadataModel in the specified partition (1).
- The **updateModel** element is set to "TRUE", the "Model" value is specified for the **packageContents** element, and the Model contained by the MetadataModel does not exist in the specified partition (1).
- The "Model" value is not specified for the **packageContents** element, and at least one of the MetadataObjects contained by the MetadataModel does not exist in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the LobSystems contained by the MetadataModel has the same name as a LobSystem in the metadata store. However, the LobSystem contained by the MetadataModel has a different type than the LobSystem in the metadata store.
- The "Model" value is specified for the **packageContents** element, and one of the Entities contained by the MetadataModel has the same name, namespace, and version as an Entity in the metadata store. However, the names of the LobSystems that contain these Entities are different.
- The "InlineProxies" value is specified for the **packageContents** element, and the specified MetadataModel contains a LobSystem with an associated Business Logic Module.
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a Method that contains more than one FilterDescriptor of type TimestampFilter.
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a StreamAccessor that specifies ReturnPropertyDescriptor that contains other TypeDescriptors.
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a StreamAccessor and the TypeDescriptor containing the ReturnPropertyDescriptor of this MethodInstance contains another TypeDescriptor under its parent TypeDescriptor, and the LobSystem containing the Entity which contains this StreamAccessor has type specified as "Database".

- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this MethodInstance is one of the following values:
 - "AccessChecker"
 - "AssociationNavigator"
 - "Associator"
 - "BinarySecurityDescriptorAccessor"
 - "BulkAssociatedIdEnumerator"
 - "BulkAssociationNavigator"
 - "BulkIdEnumerator"
 - "BulkSpecificFinder"
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"
 - "Deleter"
 - "Disassociator"
 - "SpecificFinder"
 - "Updater"
 - "StreamAccessor"
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a MethodInstance, the Method containing this MethodInstance does not contain a TimeStampFilter and the type of this MethodInstance is one of the following values:
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"

3.1.4.92.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.92.1.1

BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage

The request WSDL message for the **ImportPackageWithProgress** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ImportPackageWithProgress
```


The SOAP body contains the **ImportPackageWithProgress** element.

3.1.4.92.1.2

BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage

The response WSDL message for the **ImportPackageWithProgress** WSDL operation.

The SOAP body contains the **ImportPackageWithProgressResponse** element.

3.1.4.92.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.92.2.1 **ImportPackageWithProgress**

The input data for the **ImportPackageWithProgress** WSDL operation.

```
<xs:element name="ImportPackageWithProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q57="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q57:PackageContents"/>
      <xs:element xmlns:q58="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="adminStruct" type="q58:AdministrationMetadataCatalogStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="updateModel" type="xs:boolean"/>
      <xs:element xmlns:q59="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="jobId" type="q59:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The XML representation of the MetadataModel that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the MetadataModel is to be created. The protocol server MUST use the following rules:

- If the "Model" value is specified, this operation MUST create MetadataObjects in the metadata store. The protocol server MUST set all Entities contained by the specified MetadataModel to active. If any of the Entities contain reference errors as specified in section [3.1.4.5.3.2](#), the protocol server MUST NOT set any Entity contained by the specified MetadataModel as active.
- If the "Model" value is not specified, the protocol server MUST NOT create any MetadataObjects.
- If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding MetadataObjects. If the metadata store already contains a Property with the same name in the specified Setting for the MetadataObject, the Property in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified MetadataModel.

- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding MetadataObjects. If the metadata store already contains a localized name with the same LCID in the specified Setting for the MetadataObject, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified MetadataModel.
- If the "Permissions" value is specified, the protocol server MUST delete access control entries in the metadata store for the corresponding MetadataObjects and create the specified access control entries for the corresponding MetadataObjects.
- If the "Permissions" value is not specified, the protocol server MUST ignore access control entries in the specified MetadataModel.

adminStruct: The MetadataCatalog that contains the Model contained by the MetadataModel. If the "Model" value is specified for the **packageContents** element, the protocol server MUST create the Model in the specified MetadataCatalog. The partition (1) of this MetadataCatalog MUST be the partition (1) of the protocol client.

settingId: The Setting in which to create the Properties, localized names, and access control entries.

callerCultureLcid: Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies whether the Model contained by the MetadataModel already exists in the metadata store. If this element is set to TRUE, the protocol server MUST remove all Entity references from the Model. Then, the protocol server MUST create Entity references in the Model to all the Entities contained by the specified MetadataModel. If the "Model" value is not specified for the **packageContents** element the value of this element MUST be ignored by the protocol server.

jobId: Identifier for the operation. The value of this element MUST be unique across all requests for this operation.

3.1.4.92.2.2 ImportPackageWithProgressResponse

The result data for the **ImportPackageWithProgress** WSDL operation.

```
<xs:element name="ImportPackageWithProgressResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q60="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="ImportPackageWithProgressResult" type="q60:ModelStruct"/>
      <xs:element xmlns:q61="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q61:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ImportPackageWithProgressResult: The Model from the metadata store that corresponds to the specified MetadataModel.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.92.3 Complex Types

None.

3.1.4.92.4 Simple Types

None.

3.1.4.92.5 Attributes

None.

3.1.4.92.6 Groups

None.

3.1.4.92.7 Attribute Groups

None.

3.1.4.93 IsMethodInstantiated

The **IsMethodInstantiated** operation checks whether the specified Method contains at least one MethodInstance.

```
<wsdl:operation name="IsMethodInstantiated">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/IsMethodInstantiated"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/IsMethodInstantiatedResponse"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFau
    lt_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_Fau
    ltMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault
    _FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionExcepio
    nFault_FaultMessage"/>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_Fau
ltMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage** response message.

3.1.4.93.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.93.1.1

BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage

The request WSDL message for the **IsMethodInstantiated** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsM
ethodInstantiated

```

The SOAP body contains the **IsMethodInstantiated** element.

3.1.4.93.1.2

BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage

The response WSDL message for the **IsMethodInstantiated** WSDL operation.

The SOAP body contains the **IsMethodInstantiatedResponse** element.

3.1.4.93.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.93.2.1 IsMethodInstantiated

The input data for the **IsMethodInstantiated** WSDL operation.

```

<xs:element name="IsMethodInstantiated">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        <xs:element xmlns:q160="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q160:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

methodId: The MetadataObjectId for the Method.

partitionId: The partition (1) of the protocol client.

3.1.4.93.2.2 IsMethodInstantiatedResponse

The result data for the **IsMethodInstantiated** WSDL operation.

```

<xs:element name="IsMethodInstantiatedResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="IsMethodInstantiatedResult"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

IsMethodInstantiatedResult: This element MUST be set to TRUE, if the Method contains at least one MethodInstance. Otherwise, it MUST be set to FALSE.

3.1.4.93.3 Complex Types

None.

3.1.4.93.4 Simple Types

None.

3.1.4.93.5 Attributes

None.

3.1.4.93.6 Groups

None.

3.1.4.93.7 Attribute Groups

None.

3.1.4.94 IsParameterReferencedByMethodInstance

The **IsParameterReferencedByMethodInstance** operation checks whether the specified Parameter contains any TypeDescriptor that is the ReturnPropertyDescriptor of any MethodInstance contained by the Method containing the Parameter.

```

<wsdl:operation name="IsParameterReferencedByMethodInstance">

```

```

    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMes
sage"/>
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMes
sage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentE
xceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExcept
ionStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOp
erationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentO
utOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentN
ullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadateE
xceptionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

**BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMes
sage** request message, and the protocol server MUST respond with a
**BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMe
ssage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId of the specified Parameter is set to zero ("0").
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Parameter does not exist.

3.1.4.94.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.94.1.1

BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage

The request WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsParameterReferencedByMethodInstance
```

The SOAP body contains the **IsParameterReferencedByMethodInstance** element.

3.1.4.94.1.2

BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage

The response WSDL message for the **IsParameterReferencedByMethodInstance** WSDL operation.

The SOAP body contains the **IsParameterReferencedByMethodInstanceResponse** element.

3.1.4.94.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.94.2.1 IsParameterReferencedByMethodInstance

The input data for the **IsParameterReferencedByMethodInstance** WSDL operation.

```
<xs:element name="IsParameterReferencedByMethodInstance">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"/>
      <xs:element xmlns:q177="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q177:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

parameterId: The MetadataObjectId for the Parameter.

partitionId: The partition (1) of the protocol client.

3.1.4.94.2.2 IsParameterReferencedByMethodInstanceResponse

The result data for the **IsParameterReferencedByMethodInstance** WSDL operation.

```
<xs:element name="IsParameterReferencedByMethodInstanceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1"
name="IsParameterReferencedByMethodInstanceResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

IsParameterReferencedByMethodInstanceResult: If this element is set to TRUE, the specified Parameter contains a ReturnPropertyDescriptor. If set to FALSE, the specified Parameter does not contain a ReturnPropertyDescriptor.

3.1.4.94.3 Complex Types

None.

3.1.4.94.4 Simple Types

None.

3.1.4.94.5 Attributes

None.

3.1.4.94.6 Groups

None.

3.1.4.94.7 Attribute Groups

None.

3.1.4.95 MetadataObjectCreate

The **MetadataObjectCreate** operation creates a MetadataObject in the metadata store. If the specified MetadataObject is a MetadataCatalog and another MetadataCatalog with the same partition (1) as the specified MetadataCatalog already exists, this operation MUST NOT change the state of the data in the metadata store.

```
<wsdl:operation name="MetadataObjectCreate">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreate"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage"/>
```



```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_Fau
ltMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionEx
nFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFaul
t_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises an [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error under the following conditions:

- The **rawValues** element specifies a LobSystem, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog specified by the **parentStruct** element.
- The **rawValues** element specifies a LobSystemInstance, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the LobSystem specified by the **parentStruct** element.

- The **rawValues** element specifies an Identifier, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **rawValues** element specifies an Action, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **rawValues** element specifies an ActionParameter, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity that contains the **Action** specified by the **parentStruct** element.
- The **rawValues** element specifies a Method, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **rawValues** element specifies an AssociationGroup, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **rawValues** element specifies a MethodInstance, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element.
- The **rawValues** element specifies a Parameter, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element.
- The **rawValues** element specifies a FilterDescriptor, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element.
- The **rawValues** element specifies an Association, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity that contains the Method specified by the **parentStruct** element.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System.ArgumentException) error under the following conditions:

- The **rawValues** element specifies a MetadataObject with invalid attributes.
- The **rawValues** element specifies a MethodInstance that specifies a ReturnPropertyDescriptor that is not contained by any Parameters that are contained by the Method specified by the **parentStruct** element.
- The **rawValues** element specifies a MethodInstance that specifies a ReturnPropertyDescriptor that is contained by a Parameter with the **Direction** attribute set to "In".
- The **rawValues** element specifies a MethodInstance that does not specify a ReturnPropertyDescriptor, and the type of the specified MethodInstance is one of the following values:
 - "AccessChecker"
 - "AssociationNavigator"
 - "BulkAssociatedIdEnumerator"

- "BulkAssociationNavigator"
- "BulkIdEnumerator"
- "BulkSpecificFinder"
- "ChangedIdEnumerator"
- "DeletedIdEnumerator"
- "Finder"
- "IdEnumerator"
- "Scalar"
- "SpecificFinder"
- "StreamAccessor"
- The **rawValues** element specifies a MethodInstance that has a ReturnPropertyDescriptor with the **IsCollection** value is set in the **flags** element, and the type of the specified MethodInstance is one of the following values:
 - "BulkAssociationNavigator"
 - "BulkIdEnumerator"
 - "BulkSpecificFinder"
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"
 - "Finder"
 - "IdEnumerator"
- The **rawValues** element specifies a MethodInstance that has a ReturnPropertyDescriptor with the **IsCollection** value is set in the **flags** element, and the type of the specified MethodInstance is one of the following values:
 - "AccessChecker"
 - "Creator"
 - "Scalar"
 - "SpecificFinder"
 - "StreamAccessor"
- The **rawValues** element specifies a MethodInstance that has a ReturnPropertyDescriptor that contains other TypeDescriptors, and the specified MethodInstance is a StreamAccessor.
- The **rawValues** element specifies a MethodInstance and the TypeDescriptor that contains the ReturnPropertyDescriptor of the MethodInstance also contains other TypeDescriptors, and the LobSystem that contains the DataClass that contains the Method that contains the

MethodInstance does not allow this configuration, and the specified MethodInstance is a StreamAccessor.

- The **rawValues** element specifies a MethodInstance, the Method specified by the **parentStruct** element does not contain a TimeStampFilter, and the type of the specified MethodInstance is one of the following values:
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"
- The **rawValues** element specifies a MethodInstance that requires an input, but the Method specified by **parentStruct** does not contain any Parameters with the **Direction** attribute set to "In" or "InOut".
- The **rawValues** element specifies a FilterDescriptor of type TimeStampFilter, but the Method specified by the **parentStruct** already contains a TimeStampFilter.
- The **rawValues** element specifies a Parameter with the **Direction** attribute set to "Return", but the Method specified by **parentStruct** already contains a Parameter with the **Direction** attribute set to "Return".
- The **rawValues** element specifies an Association and the same Entity is specified as a source of the Association more than once.

This operation raises the **BdcExceptionState** error if the **MetadataObject** specified in **rawValues** element is an Entity or a TypeDescriptor.

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) under the following conditions:

- The **rawValues** element specifies an LobSystem, but an LobSystem with the same name already exists in the metadata store.
- The **rawValues** element specifies a MethodInstance, but the DataClass that contains the Method specified by the **parentStruct** element already contains a MethodInstance with the same name as the specified MethodInstance.
- The **rawValues** element specifies an Association, but the DataClass that contains the Method specified by the **parentStruct** element already contains a Method that contains an Association with the same name as the specified Association.
- The **rawValues** element specifies a MetadataCatalog, but a MetadataCatalog that already exists in the metadata store has the same partition (1) as the specified MetadataCatalog.
- The MetadataObject specified by the **parentStruct** element already contains a MetadataObject that has same name and type as the MetadataObject specified by the **rawValues** element.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The MetadataObject specified by the **parentStruct** element already contains the implementation-specific maximum number of MetadataObjects that have the same type as the MetadataObject specified by the **rawValues** element.
- The **rawValues** element specifies a MethodInstance of type IdEnumerator, AccessChecker, Deleter, ChangedIdEnumerator, DeletedIdEnumerator, or BulkIdEnumerator, but the DataClass

that contains the Method specified by the **parentStruct** element already has a MethodInstance of the same type.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error if the MetadataObject specified by the **parentStruct** is contained by an active Entity.

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.microsoft.com/sharepoint/businessdata/2008/01/SharePointBusinessData) error under the following conditions:

- The MetadataObject specified by the **parentStruct** element does not exist in the metadata store.
- The **rawValues** element specifies a MetadataObject other than Association that references another MetadataObject that does not exist in the metadata store.

If the **rawValues** element specifies any of the MetadataObjects in the following table, the protocol server MUST perform the corresponding actions in addition to creating the MetadataObject in the metadata store.

MetadataObject	Action
Identifier	Set the OrdinalNumber attribute of the created Identifier to 1 plus the maximum value of the OrdinalNumber attributes of all the Identifiers contained by the Entity specified by the parentStruct element.
Parameter	Set the OrdinalNumber attribute of the created Parameter to 1 plus the maximum value of OrdinalNumber attributes of all the Parameters contained by the Method specified by the parentStruct element.
MethodInstance	Set the IsDefault attributes of all other MethodInstances of type equal to the type of the created MethodInstance in the DataClass that contains the Method specified by the parentStruct element to "FALSE" if the IsDefault attribute is set to "TRUE" for the created MethodInstance. If the IsDefault attribute is set to "FALSE" for the created MethodInstance and the DataClass that contains the Method specified by the parentStruct element does not contain any other MethodInstance that has the type equal to the type of the created MethodInstance, the protocol server MUST set the IsDefault attribute of the created MethodInstance to "TRUE".
MethodInstance	Copy the access control entries from the Entity that contains the Method specified by the parentStruct to the created MethodInstance.
LobSystem	Copy the access control entries from the MetadataCatalog specified by the parentStruct to the created LobSystem.
Model	Copy the access control entries from the MetadataCatalog specified by the parentStruct to the created Model.
Method	Copy the access control entries from the Entity specified by the parentStruct to the created Method.

3.1.4.95.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.95.1.1

BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage

The request WSDL message for the **MetadataObjectCreate** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Met  
adataObjectCreate
```

The SOAP body contains the **MetadataObjectCreate** element.

3.1.4.95.1.2

BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage

The response WSDL message for the **MetadataObjectCreate** WSDL operation.

The SOAP body contains the **MetadataObjectCreateResponse** element.

3.1.4.95.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.95.2.1 **MetadataObjectCreate**

The input data for the **MetadataObjectCreate** WSDL operation.

```
<xs:element name="MetadataObjectCreate">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:q31="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"  
name="rawValues" type="q31:MetadataObjectStruct"/>  
      <xs:element xmlns:q32="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"  
name="parentStruct" nillable="true" type="q32:MetadataObjectStruct"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

rawValues: Specifies the MetadataObject to create. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

parentStruct: Specifies the MetadataObject in which to create the new MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

3.1.4.95.2.2 **MetadataObjectCreateResponse**

The result data for the **MetadataObjectCreate** WSDL operation.

```
<xs:element name="MetadataObjectCreateResponse">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element xmlns:q33="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"  
name="MetadataObjectCreateResult" type="q33:MetadataObjectStruct"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

MetadataObjectCreateResult: The created MetadataObject. If the MetadataObject specified in the request is a MetadataCatalog and a MetadataCatalog with the same partition (1) as the specified MetadataCatalog already exists in the metadata store, this operation MUST return the existing MetadataCatalog.

3.1.4.95.3 Complex Types

None.

3.1.4.95.4 Simple Types

None.

3.1.4.95.5 Attributes

None.

3.1.4.95.6 Groups

None.

3.1.4.95.7 Attribute Groups

None.

3.1.4.96 MetadataObjectMergeXml

The **MetadataObjectMergeXml** operation merges the Properties, localized names, and access control entries contained by the specified MetadataModel into the existing MetadataObjects in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and MUST have one of the following elements as the root element:

- An Action element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.27.
- An ActionParameter element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.29.
- An Association element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.30.
- An AssociationGroup element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.13.
- An Entity element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.11.
- A FilterDescriptor element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.19.
- An Identifier element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.15.
- A LobSystem element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.7.
- A LobSystemInstance element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.9.
- A Method element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.17.
- A MethodInstance element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.21.
- A Model element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.1.
- A Parameter element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.23.

```

<wsdl:operation name="MetadataObjectMergeXml">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlResponse"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXmlArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If

more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) under the following conditions:

- The "Properties" value is specified in the **packageContents** element, the specified MetadataModel contains properties for a MetadataObject, and the security principal (1) in whose context the protocol client is operating is not authorized to modify that MetadataObject.
- The "LocalizedNames" value is specified in the **packageContents** element, the specified MetadataModel contains localized names for a MetadataObject, and the security principal (1) in whose context the protocol client is operating is not authorized to modify that MetadataObject.
- The "Permissions" value is specified in the **packageContents** element, the specified MetadataModel contains access control entries for a MetadataObject, and the security principal (1) in whose context the protocol client is operating is not authorized to set permissions for that MetadataObject.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error if the **packageContents** element is set to "Model".

This operation raises the [BdcExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the **mergedStruct** element specifies a TypeDescriptor.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified MetadataModel contains one or more MetadataObjects that already contain the implementation-specific maximum number of Properties and the **packageContents** element has "Properties" as its value.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The specified MetadataModel contains one or more MetadataObjects that already contain the implementation-specific maximum number of localized names, and the **packageContents** element has "LocalizedNames" as its value.
- The specified MetadataModel contains one or more MetadataObjects that does not contain an access control entry that specifies "SetPermissions" permission, the **packageContents** element has "Permissions" as its value, and the specified MetadataObject is one of the following:
 - "Association"
 - "Entity"
 - "LobSystem"
 - "MetadataCatalog"
 - "Method"
 - "MethodInstance"
 - "Model"

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if one or more MetadataObjects specified by the MetadataModel do not exist in the metadata store.

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The specified MetadataModel does not conform to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.2.
- One or more MetadataObjects specified by the MetadataModel do not exist in the metadata store.
- One or more of the TypeDescriptors are specified in the MetadataModel that have DefaultValues, but the Method that contain the Parameter that contain these TypeDescriptors, do not contain the MethodInstance specified by these DefaultValues.

3.1.4.96.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.96.1.1

BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage

The request WSDL message for the **MetadataObjectMergeXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectMergeXml
```

The SOAP body contains the **MetadataObjectMergeXml** element.

3.1.4.96.1.2

BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage

The response WSDL message for the **MetadataObjectMergeXml** WSDL operation.

The SOAP body contains the **MetadataObjectMergeXmlResponse** element.

3.1.4.96.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.96.2.1 MetadataObjectMergeXml

The input data for the **MetadataObjectMergeXml** WSDL operation.

```
<xs:element name="MetadataObjectMergeXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q37="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q37:PackageContents"/>
      <xs:element xmlns:q38="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="parentStruct" type="q38:MetadataObjectStruct"/>
    
```

```

        <xs:element xmlns:q39="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="mergedStruct" type="q39:MetadataObjectStruct"/>
        <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

xml: The XML representation of the MetadataModel that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packgeContents: Specifies the parts of the MetadataModel to be merged into the existing MetadataObjects. The protocol server **MUST** use the following rules:

- If the "Properties" value is specified, the protocol server **MUST** merge the Properties for the corresponding MetadataObjects for the specified Setting. During this merge, if a Property that has the same name as the Property specified by the MetadataModel already exists for the specified MetadataObject, the protocol server **MUST** remove the existing Property and create a new Property that corresponds to the Property specified in the MetadataModel. If a Property with the specified name does not exist for the specified MetadataObject, the protocol server **MUST** create a new Property that corresponds to the Property specified in the MetadataModel.
- If the "Properties" value is not specified, the protocol server **MUST** ignore Properties in the specified MetadataModel.
- If the "LocalizedNames" value is specified, the protocol server **MUST** merge the localized names for the corresponding MetadataObjects for the specified Setting. During this merge, if a localized name that has the same language code identifier (LCID) and Setting as the localized name specified by the MetadataModel already exists for the specified MetadataObject, the protocol server **MUST** remove the existing localized name and create a new localized name that corresponds to the localized name specified in the MetadataModel. If a localized name with the specified LCID and Setting does not exist for the specified MetadataObject, the protocol server **MUST** create a new localized name that corresponds to the localized name specified in the MetadataModel.
- If the "LocalizedNames" value is not specified, the protocol server **MUST** ignore localized names in the specified MetadataModel.
- If the "Permissions" value is specified and the MetadataModel specifies access control entries for a MetadataObject for the specified Setting, the protocol server **MUST** remove any existing access control entries for the specified MetadataObject for the specified Setting, and create new access control entries that correspond to the access control entries specified in the MetadataModel for the specified Setting.
- If the "Permissions" value is not specified, the protocol server **MUST** ignore access control entries in the specified MetadataModel.

parentStruct: The MetadataObject that contains the MetadataObject specified by the MetadataModel. The partition (1) of this MetadataObject **MUST** be the partition (1) of the protocol client.

mergedStruct: The MetadataObject into which to merge the Properties, localized names, and access control entries. The attributes of the specified MetadataObject **MUST** be ignored by the protocol server. The type of this element **MUST** be the complex type corresponding to the root element of the specified XML in the following table.

Root element name	Complex type
Action	ActionStruct (from namespace Microsoft.SharePoint.BusinessData)
ActionParameter	ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)
Association	AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)
AssociationGroup	AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)
Entity	EntityStruct (from namespace Microsoft.SharePoint.BusinessData)
FilterDescriptor	FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)
Identifier	IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystem	LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystemInstance	LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Method	MethodStruct (from namespace Microsoft.SharePoint.BusinessData)
MethodInstance	MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Model	ModelStruct (from namespace Microsoft.SharePoint.BusinessData)
Parameter	ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)

settingId: The Setting to merge the Properties, localized names and access control entries. If this value is NULL, the protocol server MUST use the default Setting when performing the operation.

callerCultureLcid: Specifies the LCID corresponding to the locale in which the error messages are to be returned for. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

3.1.4.96.2.2 MetadataObjectMergeXmlResponse

The result data for the **MetadataObjectMergeXml** WSDL operation.

```
<xs:element name="MetadataObjectMergeXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q40="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q40:ArrayOfstring"/>
      <xs:element xmlns:q41="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="mergedStruct" type="q41:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

errors: List of implementation-specific error messages that occurred while performing this operation.

mergedStruct: The MetadataObject into which the Properties, localized names, and access control entries were merged. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

3.1.4.96.3 Complex Types

None.

3.1.4.96.4 Simple Types

None.

3.1.4.96.5 Attributes

None.

3.1.4.96.6 Groups

None.

3.1.4.96.7 Attribute Groups

None.

3.1.4.97 MetadataObjectReadXml

The **MetadataObjectReadXml** operation creates MetadataObjects in the metadata store, optionally along with their Properties, localized names, and access control entries contained by the specified MetadataModel. This operation creates Properties, localized names, and access control entries for the default Setting. The MetadataModel **MUST** be specified as a Well-Formed External Parsed Entity according to [\[XML\]](#) section 4.3.2 and **MUST** have one of the following elements as the root element:

- An Action element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.34.
- An ActionParameter element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.36.
- An Association element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.37.
- An AssociationGroup element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.13.
- An Entity element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.11.
- An Identifier element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.16.
- A FilterDescriptor element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.20.
- A LobSystem element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.7.
- A LobSystemInstance element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.9.
- A Method element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.18.
- A MethodInstance element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.22.
- A Parameter element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.24.

```
<wsdl:operation name="MetadataObjectReadXml">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml"
    message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage"/>
```

```

    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXmlArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) under the following conditions:

- The **xml** element specifies a LobSystem, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog specified by the **parentStruct** element.
- The **xml** element specifies a LobSystemInstance, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the LobSystem specified by the **parentStruct** element.
- The **xml** element specifies an Entity, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the LobSystem specified by the **parentStruct** element.
- The **xml** element specifies an Identifier, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **xml** element specifies an Action, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **xml** element specifies an ActionParameter, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity that contains the Action specified by the **parentStruct** element.
- The **xml** element specifies a Method, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **xml** element specifies an AssociationGroup, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Entity specified by the **parentStruct** element.
- The **xml** element specifies a MethodInstance, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element.
- The **xml** element specifies a Parameter, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element.
- The **xml** element specifies a FilterDescriptor, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element.
- The **xml** element specifies an Association, and the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method specified by the **parentStruct** element.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The "Model" value is not specified in the **packageContents** element.
- The "InlineProxies" value is specified in the **packageContents**, and the specified MetadataModel contains a LobSystem with an associated Business Logic Module.

- The specified MetadataModel contains a Method that contains more than one FilterDescriptor of type TimeStampFilter.
- The specified MetadataModel contains a Method that contains more than one Parameter with the **Direction** attribute set to "Return".
- The specified MetadataModel contains an Association which references the same Entity more than once as a source of the Association.
- The specified MetadataModel contains a StreamAccessor that specifies a ReturnPropertyDescriptor that contains other TypeDescriptors.
- The specified MetadataModel contains a StreamAccessor and the TypeDescriptor containing the ReturnPropertyDescriptor of this MethodInstance contains another TypeDescriptor under its parent TypeDescriptor, and the LobSystem containing the Entity which contains this StreamAccessor has type specified as "Database".
- The specified MetadataModel contains a MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this MethodInstance is one of the following values:
 - "AccessChecker"
 - "AssociationNavigator"
 - "Associator"
 - "BinarySecurityDescriptorAccessor"
 - "BulkAssociatedIdEnumerator"
 - "BulkAssociationNavigator"
 - "BulkIdEnumerator"
 - "BulkSpecificFinder"
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"
 - "Deleter"
 - "Disassociator"
 - "SpecificFinder"
 - "Updater"
 - "StreamAccessor"
- The specified MetadataModel contains a MethodInstance, the Method containing this MethodInstance does not contain a TimeStampFilter, and the type of this MethodInstance is one of the following values:
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"

This operation raises the [BdcExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the specified MetadataModel represents a Model or a TypeDescriptor.

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified MetadataModel represents a LobSystem, but a LobSystem with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified MetadataModel contains a MetadataObject that contains more objects of a type than the implementation-specific maximum number of that type of objects. MetadataObjects, Properties, localized names <82> and access control entries are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an Entity contains more Methods than the implementation-specific maximum number of Methods allowed per Entity

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The specified MetadataModel contains one or more MetadataObjects that contain an access control entry which specify **anonymous user** to have permissions other than "Execute", the **packageContents** element has "Permissions" as its value, and the specified MetadataObject is one of the following:
 - "Association"
 - "Entity"
 - "LobSystem"
 - "Method"
 - "MethodInstance"
- The specified MetadataModel contains one or more MetadataObjects that do not contain an access control entry that is set to "SetPermissions", the **packageContents** element has "Permissions" as its value, and the specified MetadataObject is one of the following:
 - "Association"
 - "Entity"
 - "LobSystem"
 - "Method"
 - "MethodInstance"

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the creation of the MetadataObjects in the specified MetadataModel cannot be finished because of missing MetadataObjects in the metadata store.

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error under the following conditions:

- The specified MetadataModel does not conform to the format specified in [MS-BDCMFFS].

- One or more Entities in the specified MetadataModel already exist in a different LobSystem.
- The protocol server cannot find the Parameter that contains the ReturnTypeDescriptor associated with one of the MethodInstances contained by the specified MetadataModel.
- One or more of the TypeDescriptors specified in the MetadataModel have DefaultValues, but the Method that contains the Parameter that contains these TypeDescriptors does not contain the MethodInstance specified by DefaultValues.

3.1.4.97.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.97.1.1

BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage

The request WSDL message for the **MetadataObjectReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectReadXml
```

The SOAP body contains the **MetadataObjectReadXml** element.

3.1.4.97.1.2

BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage

The response WSDL message for the **MetadataObjectReadXml** WSDL operation.

The SOAP body contains the **MetadataObjectReadXmlResponse** element.

3.1.4.97.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.97.2.1 MetadataObjectReadXml

The input data for the **MetadataObjectReadXml** WSDL operation.

```
<xs:element name="MetadataObjectReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q42="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q42:PackageContents"/>
      <xs:element xmlns:q43="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="parentStruct" type="q43:MetadataObjectStruct"/>
      <xs:element xmlns:q44="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="readStruct" type="q44:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The XML representation of the MetadataModel that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the MetadataModel are to be created. The protocol server MUST follow the following rules:

- If the "Properties" value is specified the protocol server MUST create the specified Properties for the corresponding MetadataObjects.
- If the "Properties" value is not specified the protocol server MUST ignore Properties in the specified MetadataModel.
- If the "LocalizedNames" value is specified the protocol server MUST create the specified localized names for the corresponding MetadataObjects.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified MetadataModel.
- If the "Permissions" value is specified the protocol server MUST create the specified access control entries for the corresponding MetadataObjects.
- If the "Permissions" value is not specified the protocol server MUST ignore access control entries in the specified MetadataModel.

parentStruct: Specifies the MetadataObject in which to create the new MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

readStruct: The MetadataObject that corresponds to the root element of the specified MetadataModel. The attributes of the specified MetadataObject MUST be ignored by the protocol server. The type of this element MUST be the complex type corresponding to the root element of the specified XML in the following table.

Root element name	Complex type
Action	ActionStruct (from namespace Microsoft.SharePoint.BusinessData)
ActionParameter	ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)
Association	AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)
AssociationGroup	AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)
Entity	EntityStruct (from namespace Microsoft.SharePoint.BusinessData)
FilterDescriptor	FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)
Identifier	IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystem	LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)
LobSystemInstance	LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Method	MethodStruct (from namespace Microsoft.SharePoint.BusinessData)
MethodInstance	MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)
Parameter	ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)

callerCultureLcid: Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages **MUST** be generated for the specified locale. Otherwise, the protocol server **MUST** return errors in a locale determined with an implementation-specific algorithm.

3.1.4.97.2.2 MetadataObjectReadXmlResponse

The result data for the **MetadataObjectReadXml** WSDL operation.

```
<xs:element name="MetadataObjectReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q45="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q45:ArrayOfstring"/>
      <xs:element xmlns:q46="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="readStruct" type="q46:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

errors: List of implementation-specific error messages that occurred while performing this operation.

readStruct: The MetadataObject that specifies the created MetadataObject. The partition (1) of this MetadataObject **MUST** be the partition (1) of the protocol client.

3.1.4.97.3 Complex Types

None.

3.1.4.97.4 Simple Types

None.

3.1.4.97.5 Attributes

None.

3.1.4.97.6 Groups

None.

3.1.4.97.7 Attribute Groups

None.

3.1.4.98 MetadataObjectWriteXml

The **MetadataObjectWriteXml** operation is used to retrieve an XML representation of the following objects from the metadata store:

- MetadataObjects contained by the MetadataModel along with their Properties, localized names and access control entries, if "Model" value is specified for the **packageContents** element. The XML **MUST** conform to [\[MS-BDCMFFS\]](#) section 2.1.

- Localized names, Properties, and access control entries corresponding to MetadataObjects contained by the MetadataModel, if "Model" value is not specified for the **packageContents** element. The XML MUST conform to [\[MS-BDCMFFS\]](#) section 2.2.

The MetadataModel used for this operation MUST contain the specified MetadataObject, and other MetadataObjects that are contained by the MetadataModel; it MUST NOT contain any other MetadataObjects.

If the CameThroughRemoteAdminService header specified in section [3.1](#) is present in the SOAP request, and if the specified MetadataModel contains LobSystems that the security principal (1) in whose context the protocol client is operating is not authorized to modify, the XML representation returned by this operation MUST NOT contain those LobSystems, and MUST NOT contain other MetadataObjects contained by MetadataObjects that are not contained in the result for this reason.

```
<wsdl:operation name="MetadataObjectWriteXml">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionSt
ateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeException
ionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_F
aultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptio
nFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFa
ult_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_F
aultMessage"/>
```

</wsdl:operation>

The protocol client sends a

BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error under the following conditions:

- The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, the MetadataObject is a LobSystem or a LobSystemInstance, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.
- The security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject, the "Permissions" flag is set in **packageContents**, and the CameThroughRemoteAdminService header specified in section 3.1 is present in the SOAP request.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error if the packageContents element specifies "InlineProxies" value but does not specify the "Model" value.

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if one or more MetadataObjects required for the operation does not exist.

3.1.4.98.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.98.1.1

BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage

The request WSDL message for the **MetadataObjectWriteXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXml
```

The SOAP body contains the **MetadataObjectWriteXml** element.

3.1.4.98.1.2

BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage

The response WSDL message for the **MetadataObjectWriteXml** WSDL operation.

The SOAP body contains the **MetadataObjectWriteXmlResponse** element.

3.1.4.98.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.98.2.1 **MetadataObjectWriteXml**

The input data for the **MetadataObjectWriteXml** WSDL operation.

```
<xs:element name="MetadataObjectWriteXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q47="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q47:MetadataObjectStruct"/>
      <xs:element xmlns:q48="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q48:PackageContents"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject to be retrieved. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

packageContents: Specifies the kind of data to retrieve for the specified MetadataObject. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST retrieve the Properties for the corresponding MetadataObjects from the specified Setting and if the "Model" value is also specified, the protocol server MUST also retrieve the Properties from the default Setting that do not have the same name as the Properties in the specified Setting.
- If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified MetadataModel.
- If the "LocalizedNames" value is specified, the protocol server MUST retrieve the localized names for the corresponding MetadataObjects from the specified Setting and if the "Model" value is also specified, the protocol server MUST also retrieve localized names from the default Setting that do not have the same LCID as the localized names in the specified Setting.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified MetadataModel.
- If the "Permissions" value is specified, the protocol server MUST retrieve the access control entries for the corresponding MetadataObjects from the specified Setting. If there are no access control entries for the specified Setting for a MetadataObject, and the "Model" value is also specified, the protocol server MUST retrieve access control entries from the default Setting for that MetadataObject.

- If the "Permissions" value is not specified, the protocol server MUST ignore access control entries in the specified MetadataModel.
- If the "InlineProxies" value is not specified, the protocol server MUST ignore Business Logic Modules in the specified MetadataModel.

settingId: The Setting for which Properties, localized names, and access control entries are to be retrieved. If Properties, localized names, and access control entries are not retrieved, the protocol server MUST ignore the value of this element.

3.1.4.98.2.2 MetadataObjectWriteXmlResponse

The result data for the **MetadataObjectWriteXml** WSDL operation.

```
<xs:element name="MetadataObjectWriteXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="MetadataObjectWriteXmlResult"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

MetadataObjectWriteXmlResult: The XML that represents the MetadataObject represented by the specified **metadataObjectStruct**. The XML MUST be a Well-Formed External Parsed Entity according to [XML]. The schema of the root element of the XML fragment corresponding to the specified **metadataObjectStruct** MUST be as specified in the following table.

Complex type	Root element
ActionParameterStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the ActionParameter element as specified in [MS-BDCMFFS] section 2.1.4.36. Otherwise, the ActionParameter element as specified in [MS-BDCMFFS] section 2.2.4.29.
ActionStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Action element as specified in [MS-BDCMFFS] section 2.1.4.34. Otherwise, the Action element as specified in [MS-BDCMFFS] section 2.2.4.27.
AssociationGroupStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the AssociationGroup element as specified in [MS-BDCMFFS] section 2.1.4.13. Otherwise, the AssociationGroup element as specified in [MS-BDCMFFS] section 2.2.4.13.
AssociationStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Association element as specified in [MS-BDCMFFS] section 2.1.4.37. Otherwise, the Association element as specified in [MS-BDCMFFS] section 2.2.4.30.
EntityStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Entity element as specified in [MS-BDCMFFS] section 2.1.4.11. Otherwise, the Entity element as specified in [MS-BDCMFFS] section 2.2.4.11.
FilterDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the FilterDescriptor element as specified in [MS-BDCMFFS] section 2.1.4.20. Otherwise, the FilterDescriptor element as

Complex type	Root element
	specified in [MS-BDCMFFS] section 2.2.4.19.
IdentifierStruct (from namespace Microsoft.SharePoint.BusinessData)	If the packageContents element is set to "Model", the Identifier element as specified in [MS-BDCMFFS] section 2.1.4.16. Otherwise, the Identifier element as specified in [MS-BDCMFFS] section 2.2.4.15.
LobSystemStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the LobSystem element as specified in [MS-BDCMFFS] section 2.1.4.7. Otherwise, the LobSystem element as specified in [MS-BDCMFFS] section 2.2.4.7.
LobSystemInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the LobSystemInstance element as specified in [MS-BDCMFFS] section 2.1.4.9. Otherwise, the LobSystemInstance element as specified in [MS-BDCMFFS] section 2.2.4.9.
MethodStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the Method element as specified in [MS-BDCMFFS] section 2.1.4.18. Otherwise, the Method element as specified in [MS-BDCMFFS] section 2.2.4.17.
MethodInstanceStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the MethodInstance element as specified in [MS-BDCMFFS] section 2.1.4.22. Otherwise, the MethodInstance element as specified in [MS-BDCMFFS] section 2.2.4.21.
ModelStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the Model element as specified in [MS-BDCMFFS] section 2.1.4.1. Otherwise, the Model element as specified in [MS-BDCMFFS] section 2.2.4.1.
ParameterStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the Parameter element as specified in [MS-BDCMFFS] section 2.1.4.24. Otherwise, the Parameter element as specified in [MS-BDCMFFS] section 2.2.4.23.
TypeDescriptorStruct (from namespace Microsoft.SharePoint.BusinessData)	If the "Model" value of packageContents is specified, the TypeDescriptor element as specified in [MS-BDCMFFS] section 2.1.4.25. Otherwise, the TypeDescriptor element as specified in [MS-BDCMFFS] section 2.2.4.24.

3.1.4.98.3 Complex Types

None.

3.1.4.98.4 Simple Types

None.

3.1.4.98.5 Attributes

None.

3.1.4.98.6 Groups

None.

3.1.4.98.7 Attribute Groups

None.

3.1.4.99 ModelReadXml

The **ModelReadXml** operation creates the MetadataObjects contained by the specified MetadataModel in the metadata store. The Properties, localized names, and access control entries of the MetadataObjects are also created. The MetadataModel MUST be specified as XML that conforms to the Business Data Connectivity Model File Format specified in [\[MS-BDCMFFS\]](#) section 2.1.4.1. If the MetadataModel contains a LobSystem that has the same name and type as a LobSystem in the metadata store, the LobSystem in the MetadataModel MUST be ignored by the protocol server, along with all LobSystemInstances contained by that LobSystem and the Properties, localized names, and access control entries of the ignored MetadataObjects. If the MetadataModel contains an Entity that has the same name, namespace, and version as an Entity in the metadata store and the names of the LobSystems that contain these Entities are identical, the Entity in the MetadataModel MUST be ignored by the protocol server, along with all MetadataObjects contained by the Entity or other ignored MetadataObjects and the Properties, localized names, and access control entries of the ignored MetadataObjects.

```
<wsdl:operation name="ModelReadXml">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlResponse"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_ModelReadXml_InputMessage request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ModelReadXml_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the MetadataCatalog.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) under the following conditions:

- The "Model" value is not specified in the **packageContents** element.
- The specified MetadataModel contains one or more MetadataObjects with invalid attributes.
- The "InlineProxies" value is specified in **packageContents** element, and the specified MetadataModel contains a LobSystem element with an associated Business Logic Module.
- The specified MetadataModel contains a Method that contains more than one TimeStampFilter.
- The specified MetadataModel contains a Method that contains more than one Parameter with the **Direction** attribute set to "Return".
- The specified MetadataModel contains an Association element that specifies an Entity as a source more than once.
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a StreamAccessor that specifies ReturnPropertyDescriptor that contains other TypeDescriptors.
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a StreamAccessor and the TypeDescriptor containing the ReturnPropertyDescriptor of this MethodInstance contains another TypeDescriptor under its parent TypeDescriptor, and the LobSystem containing the Entity which contains this StreamAccessor has type specified as "Database".
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a MethodInstance, and the Method for which this MethodInstance is being created does not have a Parameter whose **Direction** is "In" or "InOut" and the type of the this MethodInstance is one of the following values:

- "AccessChecker"
- "AssociationNavigator"
- "Associator"
- "BinarySecurityDescriptorAccessor"
- "BulkAssociatedIdEnumerator"
- "BulkAssociationNavigator"
- "BulkIdEnumerator"
- "BulkSpecificFinder"
- "ChangedIdEnumerator"
- "DeletedIdEnumerator"
- "Deleter"
- "Disassociator"
- "SpecificFinder"
- "Updater"
- "StreamAccessor"
- The "Model" value is specified for the **packageContents** element, and the specified MetadataModel contains a MethodInstance, the Method containing this MethodInstance does not contain a TimeStampFilter and the type of this MethodInstance is one of the following values:
 - "ChangedIdEnumerator"
 - "DeletedIdEnumerator"

This operation raises the [ArgumentOutOfRangeException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System.ArgumentOutOfRangeException) if the MetadataObjectId of the specified MetadataCatalog is set to zero ("0").

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.microsoft.com/sharepoint/businessdata/2007/SharePointBusinessData.DuplicateMetadataObjectExceptionState) error under the following conditions:

- The **updateModel** element is set to "FALSE" and there is already a Model with the same name as the Model contained by the MetadataModel contained by the specified MetadataCatalog.
- The specified MetadataModel represents a LobSystem, but an LobSystem with the same name and different **SystemType** value already exists in the metadata store.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.microsoft.com/sharepoint/businessdata/2007/SharePointBusinessData.ExceededMetadataObjectLimitExceptionState) error if the specified MetadataModel contains a MetadataObject that contains more objects of a type than the implementation-specific maximum number of that type of objects. MetadataObjects, Properties, localized names [≤83>](#) and access control entries are the types of objects where an implementation-specific maximum number limit can be enforced by the protocol server. For example, this condition is met when an Entity contains more Methods than the implementation-specific maximum number of Methods allowed per Entity.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System.InvalidOperationException) error under the following conditions:

- The specified MetadataModel contains one or more MetadataObjects that contain an access control entry which specifies the anonymous user to have permissions other than "Execute", the **packageContents** element has "Permissions" in its value, and the specified MetadataObject is one of the following:
 - Association
 - Entity
 - LobSystem
 - Method
 - MethodInstance
- The specified MetadataModel contains one or more MetadataObjects that does not contain an access control entry that is set to "SetPermissions", the **packageContents** element has "Permissions" in its value, and the specified MetadataObject is one of the following:
 - Association
 - Entity
 - LobSystem
 - Method
 - MethodInstance

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.microsoft.com/sharepoint/businessdata/2009/ModelReadXml) error if the **updateModel** element is set to "TRUE" and the specified MetadataCatalog does not contain the Model contained by the MetadataModel.

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.microsoft.com/sharepoint/businessdata/2009/PackageFormat) error under the following conditions:

- The specified XML does not conform to the format specified in [MS-BDCMFFS].
- One of the Entities contained by the MetadataModel has the same name, namespace, and version as an Entity in the metadata store, but the names of the LobSystems that contain these Entities are not identical.

3.1.4.99.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.99.1.1 BusinessDataCatalogSharedService_ModelReadXml_InputMessage

The request WSDL message for the **ModelReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ModelReadXml
```

The SOAP body contains the **ModelReadXml** element.

3.1.4.99.1.2 BusinessDataCatalogSharedService_ModelReadXml_OutputMessage

The response WSDL message for the **ModelReadXml** WSDL operation.

The SOAP body contains the **ModelReadXmlResponse** element.

3.1.4.99.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.99.2.1 ModelReadXml

The input data for the **ModelReadXml** WSDL operation.

```
<xs:element name="ModelReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q79="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q79:PackageContents"/>
      <xs:element xmlns:q80="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="applicationRegistryStruct" type="q80:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="updateModel" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The XML representation of the MetadataModel that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies what part of the MetadataModel is to be created. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding MetadataObjects. If the metadata store already contains a Property with the same name in the specified Setting for the MetadataObject, the Property in the metadata store MUST be replaced.
- If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified MetadataModel.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding MetadataObjects. If the metadata store already contains a localized name with the same LCID in the specified Setting for the MetadataObject, the localized name in the metadata store MUST be replaced.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified MetadataModel.
- If the "Permissions" value is specified, the protocol server MUST delete access control entries in the metadata store for the corresponding MetadataObjects and create the specified access control entries for the corresponding MetadataObjects.

- If the "Permissions" value is not specified, the protocol server MUST ignore access control entries in the specified MetadataModel.

applicationRegistryStruct: The MetadataCatalog that contains the Model contained by the MetadataModel. The partition (1) of this MetadataCatalog MUST be the partition (1) of the protocol client.

callerCultureLcid: Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

updateModel: Specifies whether the Model contained by the MetadataModel already exists in the metadata store. If this element is set to TRUE, the protocol server MUST remove all Entity references from the Model. Then, the protocol server MUST create Entity references in the Model for all Entities in the specified MetadataModel.

3.1.4.99.2.2 ModelReadXmlResponse

The result data for the **ModelReadXml** WSDL operation.

```
<xs:element name="ModelReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q81="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="ModelReadXmlResult" type="q81:ModelStruct"/>
      <xs:element xmlns:q82="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q82:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ModelReadXmlResult: The Model from the metadata store that corresponds to the specified MetadataModel. The partition (1) of this Model MUST be the partition (1) of the protocol client.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.99.3 Complex Types

None.

3.1.4.99.4 Simple Types

None.

3.1.4.99.5 Attributes

None.

3.1.4.99.6 Groups

None.

3.1.4.99.7 Attribute Groups

None.

3.1.4.100 ReadSlicedXml

The **ReadSlicedXml** operation creates the Model or LobSystem and its referenced MetadataObjects, along with the Properties, localized names, and access control entries of the MetadataModel in the metadata store. The MetadataModel is represented as an implementation-specific string. The MetadataModel MUST contain a single Model or LobSystem, along with all contained MetadataObjects and their Properties in all Settings, localized names in all Settings, and access control entries in all Settings. The protocol client typically uses this operation to restore a backed-up Model or LobSystem to a specified partition (1). The [WriteSlicedXml](#) operation, as specified in section [3.1.4.115](#), retrieves the string to be used as an input for this operation.

```
<wsdl:operation name="ReadSlicedXml">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXml"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlResponse"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```



```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_Fault
Message"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified MetadataCatalog.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The "Model" value is not specified in the packageContents element.

3.1.4.100.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.100.1.1 BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage

The request WSDL message for the **ReadSlicedXml** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Rea
dSlicedXml

```

The SOAP body contains the **ReadSlicedXml** element.

3.1.4.100.1.2 BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage

The response WSDL message for the **ReadSlicedXml** WSDL operation.

The SOAP body contains the **ReadSlicedXmlResponse** element.

3.1.4.100.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.100.2.1 ReadSlicedXml

The input data for the **ReadSlicedXml** WSDL operation.

```
<xs:element name="ReadSlicedXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q3="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q3:PackageContents"/>
      <xs:element xmlns:q4="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="parentStruct" type="q4:MetadataObjectStruct"/>
      <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="readStruct" type="q5:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The implementation-specific string that represents the MetadataModel.

packageContents: The value of this element SHOULD [<84>](#) be set to "All".

parentStruct: The MetadataCatalog [<85>](#) to contain the specified LobSystem or Model. The partition (1) of this MetadataCatalog MUST be the partition (1) of the protocol client.

readStruct: The value of this element MUST be a Model if the MetadataModel consists of a Model. Otherwise, the value of this element MUST be an LobSystem. The attributes of the specified Model or LobSystem MUST be ignored by the protocol server.

callerCultureLcid: Specifies the LCID corresponding to the locale for which the error messages are to be returned. If the protocol server is capable of generating error messages in the specified locale, all error messages MUST be generated for the specified locale. Otherwise, the protocol server MUST return errors in a locale determined with an implementation-specific algorithm.

3.1.4.100.2.2 ReadSlicedXmlResponse

The result data for the **ReadSlicedXml** WSDL operation.

```
<xs:element name="ReadSlicedXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q6:ArrayOfstring"/>
      <xs:element xmlns:q7="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="readStruct" type="q7:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

errors: Error messages that occurred while performing this operation.

readStruct: The Model or LobSystem from the metadata store that corresponds to the specified MetadataModel. The partition (1) of this Model or LobSystem MUST be the partition (1) of the protocol client.

3.1.4.100.3 Complex Types

None.

3.1.4.100.4 Simple Types

None.

3.1.4.100.5 Attributes

None.

3.1.4.100.6 Groups

None.

3.1.4.100.7 Attribute Groups

None.

3.1.4.101 RemoveEntityFromModel

The **RemoveEntityFromModel** operation removes the reference to the specified Entity from the specified Model.

```
<wsdl:operation name="RemoveEntityFromModel">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModel"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelResponse"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with—at most—one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to remove the reference from the specified Model to the specified Entity.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The partition (1) of the specified Model is different from the partition (1) of the specified Entity.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity is not referenced by the specified Model.

3.1.4.101.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.101.1.1

BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage

The request WSDL message for the **RemoveEntityFromModel** WSDL operation.

The SOAP action value is:

The SOAP body contains the **RemoveEntityFromModel** element.

3.1.4.101.1.2

BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage

The response WSDL message for the **RemoveEntityFromModel** WSDL operation.

The SOAP body contains the **RemoveEntityFromModelResponse** element.

3.1.4.101.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.101.2.1 RemoveEntityFromModel

The input data for the **RemoveEntityFromModel** WSDL operation.

```
<xs:element name="RemoveEntityFromModel">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q76="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="modelStruct" type="q76:ModelStruct"/>
      <xs:element xmlns:q77="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStruct" type="q77:EntityStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

modelStruct: The Model. The partition (1) of this element MUST be the partition (1) of the protocol client.

entityStruct: The Entity. The partition (1) of this element MUST be the partition (1) of the protocol client.

3.1.4.101.2.2 RemoveEntityFromModelResponse

The result data for the **RemoveEntityFromModel** WSDL operation.

```
<xs:element name="RemoveEntityFromModelResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.101.3 Complex Types

None.

3.1.4.101.4 Simple Types

None.

3.1.4.101.5 Attributes

None.

3.1.4.101.6 Groups

None.

3.1.4.101.7 Attribute Groups

None.

3.1.4.102 RemoveLocalizedName

The **RemoveLocalizedName** operation removes the localized name with the specified LCID from the specified MetadataObject.

```
<wsdl:operation name="RemoveLocalizedName">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_
FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject does not exist or a localized name for the specified LCID does not exist in the specified Setting for the specified MetadataObject.

3.1.4.102.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.102.1.1

BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage

The request WSDL message for the **RemoveLocalizedName** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName

```

The SOAP body contains the **RemoveLocalizedName** element.

3.1.4.102.1.2

BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage

The response WSDL message for the **RemoveLocalizedName** WSDL operation.

The SOAP body contains the **RemoveLocalizedNameResponse** element.

3.1.4.102.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.102.2.1 RemoveLocalizedName

The input data for the **RemoveLocalizedName** WSDL operation.

```
<xs:element name="RemoveLocalizedName">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q22="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q22:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this element MUST be the partition (1) of the protocol client.

lcid: The LCID of the localized name to be removed.

settingId: The Setting from which to remove the localized name.

3.1.4.102.2.2 RemoveLocalizedNameResponse

The result data for the **RemoveLocalizedName** WSDL operation.

```
<xs:element name="RemoveLocalizedNameResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.102.3 Complex Types

None.

3.1.4.102.4 Simple Types

None.

3.1.4.102.5 Attributes

None.

3.1.4.102.6 Groups

None.

3.1.4.102.7 Attribute Groups

None.

3.1.4.103 RemoveProperty

The **RemoveProperty** operation removes the specified Property from the specified MetadataObject.

```
<wsdl:operation name="RemoveProperty">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyResponse"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_RemoveProperty_InputMessage** request message, and

the protocol server MUST respond with a **BusinessDataCatalogSharedService_RemoveProperty_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The name element is empty or "NULL".
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject does not exist.

3.1.4.103.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.103.1.1

BusinessDataCatalogSharedService_RemoveProperty_InputMessage

The request WSDL message for the **RemoveProperty** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveProperty
```

The SOAP body contains the **RemoveProperty** element.

3.1.4.103.1.2

BusinessDataCatalogSharedService_RemoveProperty_OutputMessage

The response WSDL message for the **RemoveProperty** WSDL operation.

The SOAP body contains the **RemovePropertyResponse** element.

3.1.4.103.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.103.2.1 RemoveProperty

The input data for the **RemoveProperty** WSDL operation.

```
<xs:element name="RemoveProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q26="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q26:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

name: The name of the Property to be deleted.

settingId: The Setting to delete the Property from.

3.1.4.103.2.2 RemovePropertyResponse

The result data for the **RemoveProperty** WSDL operation.

```
<xs:element name="RemovePropertyResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.103.3 Complex Types

None.

3.1.4.103.4 Simple Types

None.

3.1.4.103.5 Attributes

None.

3.1.4.103.6 Groups

None.

3.1.4.103.7 Attribute Groups

None.

3.1.4.104 RemoveThrottlingRule

The **RemoveThrottlingRule** operation deletes the specified throttle configuration setting.

```
<wsdl:operation name="RemoveThrottlingRule">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule"
    message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleResponse"
    message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentNullExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage response message.

3.1.4.104.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.104.1.1

BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage

The request WSDL message for the **RemoveThrottlingRule** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveThrottlingRule
```

The SOAP body contains the **RemoveThrottlingRule** element.

3.1.4.104.1.2

BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage

The response WSDL message for the **RemoveThrottlingRule** WSDL operation.

The SOAP body contains the **RemoveThrottlingRuleResponse** element.

3.1.4.104.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.104.2.1 RemoveThrottlingRule

The input data for the **RemoveThrottlingRule** WSDL operation.

```
<xs:element name="RemoveThrottlingRule">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q225="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="safetyNetStruct" type="q225:SafetyNetStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

safetyNetStruct: The throttle configuration setting that is to be deleted from the metadata store.

3.1.4.104.2.2 RemoveThrottlingRuleResponse

The result data for the **RemoveThrottlingRule** WSDL operation.

```
<xs:element name="RemoveThrottlingRuleResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.104.3 Complex Types

None.

3.1.4.104.4 Simple Types

None.

3.1.4.104.5 Attributes

None.

3.1.4.104.6 Groups

None.

3.1.4.104.7 Attribute Groups

None.

3.1.4.105 SaveLocalizedName

The **SaveLocalizedName** operation adds or replaces a localized name for the specified **MetadataObject**. If a localized name with the same LCID as the specified LCID already exists for the specified **MetadataObject**, the protocol server **MUST** replace the localized name of the specified **MetadataObject** with the specified localized name.

```
<wsdl:operation name="SaveLocalizedName">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameResponse"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage** request message, and the protocol server **MUST** respond with a **BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error Complex Type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataObject already contains the implementation-specific maximum number of localized names.

3.1.4.105.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.105.1.1

BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage

The request WSDL message for the **SaveLocalizedName** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveLocalizedName
```

The SOAP body contains the **SaveLocalizedName** element.

3.1.4.105.1.2

BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage

The response WSDL message for the **SaveLocalizedName** WSDL operation.

The SOAP body contains the **SaveLocalizedNameResponse** element.

3.1.4.105.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.105.2.1 SaveLocalizedName

The input data for the **SaveLocalizedName** WSDL operation.

```
<xs:element name="SaveLocalizedName">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q20="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q20:MetadataObjectStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:unsignedInt"/>
      <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

lcid: The LCID of the localized name to be saved.

name: The localized name of the MetadataObject.

settingId: The Setting to which to write the localized name.

3.1.4.105.2.2 SaveLocalizedNameResponse

The result data for the **SaveLocalizedName** WSDL operation.

```
<xs:element name="SaveLocalizedNameResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.105.3 Complex Types

None.

3.1.4.105.4 Simple Types

None.

3.1.4.105.5 Attributes

None.

3.1.4.105.6 Groups

None.

3.1.4.105.7 Attribute Groups

None.

3.1.4.106 SaveProperty

The **SaveProperty** operation adds or replaces a Property for the specified MetadataObject. If a Property with the same name as the specified Property already exists for the specified MetadataObject, the protocol server MUST replace the Property of the MetadataObject with the specified Property.

```
<wsdl:operation name="SaveProperty">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyResponse"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentOutOfRangeExceptionExceptionFault"
    name="ArgumentOutOfRangeExceptionExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyInvalidOperationExceptionExceptionFault" name="InvalidOperationExceptionExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_SaveProperty_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SaveProperty_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section [2.2.4](#). If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified MetadataObject in the specified Setting.
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject already contains the implementation-specific maximum number of Properties.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataObject does not exist.

3.1.4.106.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.106.1.1 BusinessDataCatalogSharedService_SaveProperty_InputMessage

The request WSDL message for the **SaveProperty** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SaveProperty
```

The SOAP body contains the **SaveProperty** element.

3.1.4.106.1.2 BusinessDataCatalogSharedService_SaveProperty_OutputMessage

The response WSDL message for the **SaveProperty** WSDL operation.

The SOAP body contains the **SavePropertyResponse** element.

3.1.4.106.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.106.2.1 SaveProperty

The input data for the **SaveProperty** WSDL operation.

```
<xs:element name="SaveProperty">
  <xs:complexType>
    <xs:sequence>
```

```

        <xs:element xmlns:q23="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q23:MetadataObjectStruct"/>
        <xs:element xmlns:q24="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="propertyStruct" type="q24:PropertyStruct"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client.

propertyStruct: The Property to be saved.

3.1.4.106.2.2 SavePropertyResponse

The result data for the **SaveProperty** WSDL operation.

```

<xs:element name="SavePropertyResponse">
    <xs:complexType>
        <xs:sequence/>
    </xs:complexType>
</xs:element>

```

3.1.4.106.3 Complex Types

None.

3.1.4.106.4 Simple Types

None.

3.1.4.106.5 Attributes

None.

3.1.4.106.6 Groups

None.

3.1.4.106.7 Attribute Groups

None.

3.1.4.107 SetAccessControlEntries

The **SetAccessControlEntries** operation sets access control entries for the specified MetadataObject. The protocol server MUST delete all access control entries of the specified MetadataObject for the specified Setting, and then add the specified access control entries to the specified MetadataObject.

```

<wsdl:operation name="SetAccessControlEntries">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

```

```

edService/SetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_
FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExcepti
onFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateF
ault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_
FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFa
ult_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with at exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to set permissions on the

Error complex type	Condition
	specified MetadataObject.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	At least one of the specified access control entries contains an invalid value for principalName element.
ArgumentOutOfRangeException (from namespace http://schemas.datacontract.org/2004/07/System)	The MetadataObjectId for the specified MetadataObject is set to zero ("0").
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified access control entries do not contain an access control entry with "SetPermissions" permission, or contain an access control entry that specify anonymous user to have permissions other than "Execute".

3.1.4.107.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.107.1.1

BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage

The request WSDL message for the **SetAccessControlEntries** WSDL operation.

The SOAP action value is:

<http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetAccessControlEntries>

The SOAP body contains the **SetAccessControlEntries** element.

3.1.4.107.1.2

BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage

The response WSDL message for the **SetAccessControlEntries** WSDL operation.

The SOAP body contains the **SetAccessControlEntriesResponse** element.

3.1.4.107.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.107.2.1 SetAccessControlEntries

The input data for the **SetAccessControlEntries** WSDL operation.

```
<xs:element name="SetAccessControlEntries">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q29="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q29:MetadataObjectStruct"/>
      <xs:element xmlns:q30="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="accessControlEntries" type="q30:ArrayOfAccessControlEntryStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject. The partition (1) of this MetadataObject MUST be the partition (1) of the protocol client. The MetadataObject MUST be of one of the following types:

- Entity
- LobSystem
- MetadataCatalog
- Method
- MethodInstance
- Model

accessControlEntries: The access control entries.

settingId: The Setting to which to write the access control entries.

3.1.4.107.2.2 SetAccessControlEntriesResponse

The result data for the **SetAccessControlEntries** WSDL operation.

```
<xs:element name="SetAccessControlEntriesResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.107.3 Complex Types

None.

3.1.4.107.4 Simple Types

None.

3.1.4.107.5 Attributes

None.

3.1.4.107.6 Groups

None.

3.1.4.107.7 Attribute Groups

None.

3.1.4.108 SetDefaultActionForEntity

The **SetDefaultActionForEntity** operation sets the default Action for the specified Entity.

```
<wsdl:operation name="SetDefaultActionForEntity">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntity"
    message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntityResponse"
    message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExcep
    tionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntityArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullException
    Fault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionExc
    eptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault
    Fault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/SetDefaultActionForEntityMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStat
    eFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
```

```

edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage response message, unless either of the conditions in the following table is met.

If either of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault that contains the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified Entity.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Entity does not exist or does not contain an Action with the specified name.

3.1.4.108.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.108.1.1

BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage

The request WSDL message for the **SetDefaultActionForEntity** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity

```

The SOAP body contains the **SetDefaultActionForEntity** element.

3.1.4.108.1.2

BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage

The response WSDL message for the **SetDefaultActionForEntity** WSDL operation.

The SOAP body contains the **SetDefaultActionForEntityResponse** element.

3.1.4.108.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.108.2.1 SetDefaultActionForEntity

The input data for the **SetDefaultActionForEntity** WSDL operation.

```
<xs:element name="SetDefaultActionForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q125="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="entityStruct" type="q125:EntityStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="actionName" type="xs:string"/>
      <xs:element xmlns:q126="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q126:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entityStruct: The Entity to which a default Action is to be set. The partition (1) of this Entity **MUST** be the partition (1) of the protocol client.

actionName: The name of the Action to be set as default Action to the specified Entity.

partitionId: The partition (1) of the protocol client.

3.1.4.108.2.2 SetDefaultActionForEntityResponse

The result data for the **SetDefaultActionForEntity** WSDL operation.

```
<xs:element name="SetDefaultActionForEntityResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.108.3 Complex Types

None.

3.1.4.108.4 Simple Types

None.

3.1.4.108.5 Attributes

None.

3.1.4.108.6 Groups

None.

3.1.4.108.7 Attribute Groups

None.

3.1.4.109 SetDefaultValuesForTypeDescriptor

The **SetDefaultValuesForTypeDescriptor** operation sets the **DefaultValue** of the **TypeDescriptor** with the **MetadataObjectId** specified by the **TypeDescriptorId** element of the specified **DefaultValueStruct** complex type for the **MethodInstance**, with the **MetadataObjectId** specified by the **methodInstanceId** element of the specified **DefaultValueStruct**.

```
<wsdl:operation name="SetDefaultValuesForTypeDescriptor">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage"
  />
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorResponse"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage"
  />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
    name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
    name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a

BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage

request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage

response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the Method that contains the Parameter that contains the specified TypeDescriptor.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified DefaultValue is invalid.
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor already contains the implementation-specific maximum number of DefaultValues.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified TypeDescriptor does not exist.

3.1.4.109.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.109.1.1

BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage

The request WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultValuesForTypeDescriptor
```

The SOAP body contains the **SetDefaultValuesForTypeDescriptor** element.

3.1.4.109.1.2

BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_Output Message

The response WSDL message for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

The SOAP body contains the **SetDefaultValuesForTypeDescriptorResponse** element.

3.1.4.109.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.109.2.1 SetDefaultValuesForTypeDescriptor

The input data for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="SetDefaultValuesForTypeDescriptor">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q195="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="defaultValueStruct" type="q195:DefaultValueStruct"/>
      <xs:element xmlns:q196="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q196:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

defaultValueStruct: The DefaultValue to be set for the specified TypeDescriptor. The partition (1) of this element MUST be the partition (1) of the protocol.

partitionId: The partition (1) of the protocol client.

3.1.4.109.2.2 SetDefaultValuesForTypeDescriptorResponse

The result data for the **SetDefaultValuesForTypeDescriptor** WSDL operation.

```
<xs:element name="SetDefaultValuesForTypeDescriptorResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.109.3 Complex Types

None.

3.1.4.109.4 Simple Types

None.

3.1.4.109.5 Attributes

None.

3.1.4.109.6 Groups

None.

3.1.4.109.7 Attribute Groups

None.

3.1.4.110 SetLobSystemDataByLobSystemId

The **SetLobSystemDataByLobSystemId** operation sets the Business Logic Modules [86](#) for the specified LobSystem.

```
<wsdl:operation name="SetLobSystemDataByLobSystemId">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRang
eExceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionState
Fault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationE
xceptionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataException
StateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentException
Fault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExcep
tionFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a
BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage

request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage** response message, unless the condition in the following table is met.

If the condition in the following table is met, the protocol server MUST instead respond with a **SOAP fault** containing the corresponding error complex type, serialized as specified in section [2.2.4](#).

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified LobSystem.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified LobSystem does not exist.

3.1.4.110.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.110.1.1

BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage

The request WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetLobSystemDataByLobSystemId
```

The SOAP body contains the **SetLobSystemDataByLobSystemId** element.

3.1.4.110.1.2

BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage

The response WSDL message for the **SetLobSystemDataByLobSystemId** WSDL operation.

The SOAP body contains the **SetLobSystemDataByLobSystemIdResponse** element.

3.1.4.110.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.110.2.1 SetLobSystemDataByLobSystemId

The input data for the **SetLobSystemDataByLobSystemId** WSDL operation.

```

<xs:element name="SetLobSystemDataByLobSystemId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"/>
      <xs:element
        xmlns:q88="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
        minOccurs="1" maxOccurs="1" name="proxyGenerationResult" type="q88:ProxyGenerationResult"/>
      <xs:element xmlns:q89="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="1" maxOccurs="1" name="partitionId" type="q89:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

lobSystemId: The MetadataObjectId of the LobSystem.

proxyGenerationResult: The Business Logic Modules [<87>](#) to be set in the specified LobSystem.

partitionId: The partition (1) of the protocol client.

3.1.4.110.2.2 SetLobSystemDataByLobSystemIdResponse

The result data for the **SetLobSystemDataByLobSystemId** WSDL operation.

```

<xs:element name="SetLobSystemDataByLobSystemIdResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.110.3 Complex Types

None.

3.1.4.110.4 Simple Types

None.

3.1.4.110.5 Attributes

None.

3.1.4.110.6 Groups

None.

3.1.4.110.7 Attribute Groups

None.

3.1.4.111 TypeDescriptorCreate

The **TypeDescriptorCreate** operation creates a TypeDescriptor in the metadata store.

```

<wsdl:operation name="TypeDescriptorCreate">

```

```

    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreate"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage"/>
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_Fau
ltMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault
_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionF
ault_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFau
lt_FaultMessage"/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_Fau
ltMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method containing the Parameter specified by **parameterStruct** element.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The **TypeDescriptor** specified by the **rawValues** element and the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element are contained by different Parameters.
- The data type referenced by the **typeName** element of the specified **TypeDescriptor** is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.
- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element is "NULL", and the Parameter has another root **TypeDescriptor**.
- The **TypeDescriptor** and the parent **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element have the "IsCollection" flag set.
- The **TypeDescriptor** is associated with a **FilterDescriptor**, and the **FilterDescriptor** is not contained by the Method that contains the Parameter specified by the **parameterStruct** element.
- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element has the "IsCollection" flag set and already contains another **TypeDescriptor**.
- The **TypeDescriptor** has its "read-only" flag set, and the **Direction** attribute of the Parameter is set to "In".

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains another **TypeDescriptor** that has the same name.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The **TypeDescriptor** specified by the **parentTypeDescriptorStruct** element already contains an implementation-specific maximum number of **TypeDescriptors**.
- The metadata store already contains an implementation-specific maximum number of **TypeDescriptors** associated with the **FilterDescriptor** referenced by the specified **TypeDescriptor**.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](#) error if the Parameter specified by the **parameterStruct** element is contained by an active Entity.

3.1.4.111.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.111.1.1

BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage

The request WSDL message for the **TypeDescriptorCreate** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate
```

The SOAP body contains the **TypeDescriptorCreate** element.

3.1.4.111.1.2

BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage

The response WSDL message for the **TypeDescriptorCreate** WSDL operation.

The SOAP body contains the **TypeDescriptorCreateResponse** element.

3.1.4.111.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.111.2.1 TypeDescriptorCreate

The input data for the **TypeDescriptorCreate** WSDL operation.

```
<xs:element name="TypeDescriptorCreate">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q199="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="rawValues" type="q199:TypeDescriptorStruct"/>
      <xs:element xmlns:q200="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="parentTypeDescriptorStruct" nillable="true" type="q200:TypeDescriptorStruct"/>
      <xs:element xmlns:q201="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="parameterStruct" type="q201:ParameterStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawValues: The TypeDescriptor to create. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client. The protocol client MUST specify values for all the elements in this complex type.

parentTypeDescriptorStruct: The TypeDescriptor that contains the TypeDescriptor to create. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client. If the TypeDescriptor to be created is a root TypeDescriptor, then the value of this element MUST be NULL.

parameterStruct: The Parameter containing the created TypeDescriptor. The partition (1) of this Parameter MUST be the partition (1) of the protocol client.

3.1.4.111.2.2 TypeDescriptorCreateResponse

The result data for the **TypeDescriptorCreate** WSDL operation.

```
<xs:element name="TypeDescriptorCreateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q202="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="TypeDescriptorCreateResult" type="q202:TypeDescriptorStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

TypeDescriptorCreateResult: The created TypeDescriptor. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client.

3.1.4.111.3 Complex Types

None.

3.1.4.111.4 Simple Types

None.

3.1.4.111.5 Attributes

None.

3.1.4.111.6 Groups

None.

3.1.4.111.7 Attribute Groups

None.

3.1.4.112 TypeDescriptorMergeXml

The **TypeDescriptorMergeXml** operation merges the Properties and localized names contained by the TypeDescriptors in the specified MetadataModel into an existing TypeDescriptor in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity as specified in [\[XML\]](#) section 4.3.2 and MUST have as a root element the **TypeDescriptor** element, as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.24.

```
<wsdl:operation name="TypeDescriptorMergeXml">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlResponse"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
```

```

message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFau
lt_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_F
aultMessage"/>
</wsdl:operation>

```

The protocol client sends a

BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client is operating is not authorized to edit the Method that contains the specified Parameter.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The "Model" value is specified in the packageContents element.
ExceededMetadataObjectLimitExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified MetadataModel contains one or more TypeDescriptors that already contain the implementation-specific maximum number of Properties, and the packageContents element has "Properties" set as its value.

Error complex type	Condition
InvalidOperationException (from namespace http://schemas.datacontract.org/2004/07/System)	The specified MetadataModel specifies one or more TypeDescriptors that already contain the implementation-specific maximum number of localized names, and the packageContents element has "LocalizedNames" as its value.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Parameter or the specified parent TypeDescriptor could not be found.
PackageFormatExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The TypeDescriptor specified in the MetadataModel does not exist in the specified TypeDescriptor or the specified Parameter if a TypeDescriptor is not specified.

3.1.4.112.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.112.1.1

BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage

The request WSDL message for the **TypeDescriptorMergeXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorMergeXml
```

The SOAP body contains the **TypeDescriptorMergeXml** element.

3.1.4.112.1.2

BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage

The response WSDL message for the **TypeDescriptorMergeXml** WSDL operation.

The SOAP body contains the **TypeDescriptorMergeXmlResponse** element.

3.1.4.112.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.112.2.1 TypeDescriptorMergeXml

The input data for the **TypeDescriptorMergeXml** WSDL operation.

```
<xs:element name="TypeDescriptorMergeXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q203="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q203:PackageContents"/>
      <xs:element xmlns:q204="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="parameterStruct" type="q204:ParameterStruct"/>
      <xs:element xmlns:q205="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="parentTypeDescriptorStruct" nillable="true" type="q205:TypeDescriptorStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

xml: The XML representation of the TypeDescriptor that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#) section 2.2.4.24.

packageContents: Specifies the parts of the TypeDescriptors to be merged into the existing TypeDescriptors. The protocol server MUST use the following rules:

- If the "Properties" value is specified the protocol server MUST merge the Properties for the corresponding TypeDescriptors for the specified Setting. During this merge, if a Property that has the same name as the Property specified in the MetadataModel already exists for the specified TypeDescriptor, the protocol server MUST remove the existing Property and create a new Property that corresponds to the Property specified in the MetadataModel. If a Property with the specified name does not exist for the specified TypeDescriptor, the protocol server MUST create a new Property that corresponds to the Property specified in the MetadataModel.
- If the "Properties" value is not specified the protocol server MUST ignore Properties in the specified MetadataModel.
- If the "LocalizedNames" value is specified the protocol server MUST merge the localized names for the corresponding TypeDescriptor for the specified Setting. During this merge, if a localized name that has the same LCID and Setting as the localized name specified by the MetadataModel already exists for the specified TypeDescriptor, the protocol server MUST remove the existing localized name and create a new localized name that corresponds to the localized name specified in the MetadataModel. If a localized name with the specified LCID and Setting does not exist for the specified TypeDescriptor, the protocol server MUST create a new localized name that corresponds to the localized name specified in the MetadataModel.
- If the "LocalizedNames" value is not specified the protocol server MUST ignore localized names in the specified MetadataModel.

parameterStruct: The Parameter that contains the TypeDescriptor that is updated. The partition (1) of this Parameter MUST be the partition (1) or the protocol client.

parentTypeDescriptorStruct: The TypeDescriptor that contains the TypeDescriptor specified by the XML. The partition (1) of this TypeDescriptor, if it is specified, MUST be the partition (1) of the protocol client. This TypeDescriptor MUST be NULL if the TypeDescriptor specified by the XML is a root TypeDescriptor.

settingId: The Setting with which to merge the Properties and localized names. If the value is NULL, the protocol server MUST use the default Setting when performing this operation.

callerCultureLcid: This value MUST be ignored by the protocol server.

3.1.4.112.2.2 TypeDescriptorMergeXmlResponse

The result data for the **TypeDescriptorMergeXml** WSDL operation.

```
<xs:element name="TypeDescriptorMergeXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q206="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="TypeDescriptorMergeXmlResult" type="q206:TypeDescriptorStruct"/>
      <xs:element xmlns:q207="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q207:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

TypeDescriptorMergeXmlResult: The TypeDescriptor into which the Properties and localized names were merged. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client.

errors: List of implementation-specific error messages that occurred while performing this operation.

3.1.4.112.3 Complex Types

None.

3.1.4.112.4 Simple Types

None.

3.1.4.112.5 Attributes

None.

3.1.4.112.6 Groups

None.

3.1.4.112.7 Attribute Groups

None.

3.1.4.113 TypeDescriptorReadXml

The **TypeDescriptorReadXml** operation creates the TypeDescriptors contained by the specified MetadataModel, along with their Properties, localized names, and access control entries, in the metadata store. The MetadataModel MUST be specified as a Well-Formed External Parsed Entity, as specified in [\[XML\]](#) section 4.3.2, and MUST have as a root element the TypeDescriptor element, as specified in [\[MS-BDCMFFS\]](#) section 2.1.4.25.

```
<wsdl:operation name="TypeDescriptorReadXml">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXml"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlResponse"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
    name="PackageFormatExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSta
    teFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
    name="InvalidOperationExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationException
    Fault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlMetadataExceptionStateFault"
    name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFau
    lt_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_Fa
    ultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_Fa
    ultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFaul
    t_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
    edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
    name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionExcepi
    onFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage** request message, and the protocol server MUST respond with a

BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises an [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the Method containing the specified Parameter.

This operation raises an [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) under the following conditions:

- The "Model" value is not specified in the **packageContents** element.
- The data type referenced by a TypeDescriptor contained by the MetadataModel is invalid. This happens when the identifier of the data type is not in the correct format or the protocol server cannot access or load the specified data type.
- The MetadataModel contains a TypeDescriptor that has the "IsCollection" flag set and contains another TypeDescriptor that has the "IsCollection" flag set.
- The specified TypeDescriptor has the "IsCollection" flag set, and the TypeDescriptor that correspond to the specified MetadataModel also has the "IsCollection" flag set.
- The specified TypeDescriptor has the "IsCollection" flag set and already contains a TypeDescriptor.
- The specified TypeDescriptor is NULL, and the specified Parameter already has a root TypeDescriptor.
- The specified TypeDescriptor is not contained by the specified Parameter.
- The specified MetadataModel contains a TypeDescriptor that has the "ReadOnly" flag set, and the specified Parameter has the **Direction** attribute set to "In".

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified TypeDescriptor already contains another TypeDescriptor with the same name as the TypeDescriptor that corresponds to the MetadataModel.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error under the following conditions:

- The specified MetadataModel contains a TypeDescriptor that contains more TypeDescriptors than the implementation-specific maximum number of TypeDescriptors.
- The specified TypeDescriptor contains the implementation-specific maximum number of TypeDescriptors.

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error if the Entity containing the Method that contains the specified Parameter is active.

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the specified Parameter or the specified TypeDescriptor does not exist.

This operation raises the [PackageFormatExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The specified XML does not conform to the format specified in [MS-BDCMFFS].
- The Method containing the specified Parameter does not contain the FilterDescriptor referenced by the specified MetadataModel.

3.1.4.113.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.113.1.1

BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage

The request WSDL message for the **TypeDescriptorReadXml** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorReadXml
```

The SOAP body contains the **TypeDescriptorReadXml** element.

3.1.4.113.1.2

BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage

The response WSDL message for the **TypeDescriptorReadXml** WSDL operation.

The SOAP body contains the **TypeDescriptorReadXmlResponse** element.

3.1.4.113.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.113.2.1 TypeDescriptorReadXml

The input data for the **TypeDescriptorReadXml** WSDL operation.

```
<xs:element name="TypeDescriptorReadXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string"/>
      <xs:element xmlns:q208="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q208:PackageContents"/>
      <xs:element xmlns:q209="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="parameterStruct" type="q209:ParameterStruct"/>
      <xs:element xmlns:q210="Microsoft.SharePoint.BusinessData" minOccurs="0" maxOccurs="1"
name="parentTypeDescriptorStruct" nillable="true" type="q210:TypeDescriptorStruct"/>
      <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:complexType>
  </xs:element>

```

xml: The XML representation of the MetadataModel that conforms to the Business Data Connectivity Model File Format as specified in [\[MS-BDCMFFS\]](#).

packageContents: Specifies the part of the MetadataModel to be created. The protocol server MUST use the following rules:

- If the "Properties" value is specified, the protocol server MUST create the specified Properties for the corresponding MetadataObjects.
- If the "Properties" value is not specified, the protocol server MUST ignore Properties in the specified MetadataModel.
- If the "LocalizedNames" value is specified, the protocol server MUST create the specified localized names for the corresponding MetadataObjects.
- If the "LocalizedNames" value is not specified, the protocol server MUST ignore localized names in the specified MetadataModel.
- If the "Permissions" value is specified, the protocol server MUST create the specified access control entries for the corresponding MetadataObjects.
- If the "Permissions" value is not specified, the protocol server MUST ignore access control entries in the specified MetadataModel.

parameterStruct: The Parameter in which to create the TypeDescriptors contained by the MetadataModel. The partition (1) of this Parameter MUST be the partition (1) of the protocol client.

parentTypeDescriptorStruct: The TypeDescriptor in which to create the TypeDescriptors contained by the MetadataModel. The value of this element MUST be NULL if the MetadataModel contains the root TypeDescriptor of the Parameter. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client.

callerCultureLcid: This value MUST be ignored by the protocol server.

3.1.4.113.2.2 TypeDescriptorReadXmlResponse

The result data for the **TypeDescriptorReadXml** WSDL operation.

```

<xs:element name="TypeDescriptorReadXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q211="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="TypeDescriptorReadXmlResult" type="q211:TypeDescriptorStruct"/>
      <xs:element xmlns:q212="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q212:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

TypeDescriptorReadXmlResult: The TypeDescriptor from the metadata store that is corresponding to the specified MetadataModel. The partition (1) of this TypeDescriptor MUST be the partition (1) of the protocol client.

errors: The list of implementation-specific error messages corresponding to the errors encountered during this operation, as well as other implementation-specific informational messages related to the operation.

3.1.4.113.3 Complex Types

None.

3.1.4.113.4 Simple Types

None.

3.1.4.113.5 Attributes

None.

3.1.4.113.6 Groups

None.

3.1.4.113.7 Attribute Groups

None.

3.1.4.114 Update

The **Update** operation updates a **MetadataObject** in the metadata store.

```
<wsdl:operation name="Update">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update" message="tns:BusinessDataCatalogSharedService_Update_InputMessage"/>
  <wsdl:output
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateResponse"
    message="tns:BusinessDataCatalogSharedService_Update_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
    message="tns:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage"/>
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
    message="tns:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"/>
</wsdl:operation>
```

```

<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMess
age"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_Update_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_Update_OutputMessage** response message, unless any one of the following conditions is met.

If any one of the following conditions is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

This operation raises the [AccessDeniedExceptionState \(from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure\)](http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure) error if the security principal (1) in whose context the protocol client is operating is not authorized to modify the specified MetadataObject.

This operation raises the [ArgumentException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under either of the following conditions:

- The specified MetadataObject name is "NULL" or empty.
- The length of the specified MetadataObject name exceeds 255 characters.

This operation raises the [ConcurrentModificationExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the specified MetadataObject has been updated by a context other than the one that it has been currently read by. This happens when the specified object version is not equal to the current object version of the MetadataObject. For example, this error can be raised when one context reads the MetadataObject, another context updates the same MetadataObject, and then the original context tries to update the same MetadataObject.

This operation raises the [DuplicateMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error if the parent MetadataObject contains another MetadataObject with the same MetadataObject name.

This operation raises the [ExceededMetadataObjectLimitExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData) error under the following conditions:

- The parent of the specified MetadataObject already contains the implementation-specific maximum number of MetadataObjects of the same type as the specified MetadataObject.
- The specified MetadataObject is a MethodInstance, and one of the following conditions holds true:
 - The type of the specified MethodInstance is IdEnumerator, and the DataClass that contains the specified MethodInstance already contains another MethodInstance of type IdEnumerator.
 - The type of the specified MethodInstance is AccessChecker, and the DataClass that contains the specified MethodInstance already contains another MethodInstance of type AccessChecker.

- The type of the specified MethodInstance is Deleter, and the DataClass that contains the specified MethodInstance already contains another MethodInstance of type Deleter.
- The type of the specified MethodInstance is ChangedIdEnumerator, and the DataClass that contains the specified MethodInstance already contains another MethodInstance of type ChangedIdEnumerator.
- The type of the specified MethodInstance is DeletedIdEnumerator, and the DataClass that contains the specified MethodInstance already contains another MethodInstance of type DeletedIdEnumerator.
- The type of the specified MethodInstance is BulkIdEnumerator, and the DataClass that contains the specified MethodInstance already contains another MethodInstance of type BulkIdEnumerator.<88>

This operation raises the [InvalidMetadataObjectExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error under the following conditions:

- The specified MetadataObject is a root TypeDescriptor and is being updated to be part of a Parameter that already has a root TypeDescriptor.
- The specified MetadataObject is an Association or a MethodInstance, and the Parameter of the specified ReturnPropertyDescriptor is not contained by the same Method as the specified Association or MethodInstance.
- The specified MetadataObject is an Association or a MethodInstance, and the specified type for the MethodInstance requires a Parameter with the **Direction** attribute set to "In" or "InOut" to be present on the Method containing the specified Association or MethodInstance.
- The specified MetadataObject is an Association or a MethodInstance, and the Parameter containing the specified ReturnPropertyDescriptor has the **Direction** attribute set to "In".
- The specified MetadataObject is an Association or a MethodInstance, and the ReturnPropertyDescriptor is required for the specified type for the MethodInstance. However, it is passed in as NULL or zero.
- The specified MetadataObject is an Association or a MethodInstance, and the ReturnPropertyDescriptor is required to have the "IsCollection" flag set for the specified type of the MethodInstance.
- The specified MetadataObject is an Association or a MethodInstance, and the ReturnPropertyDescriptor is required to have the "IsCollection" flag not set for the specified type of the MethodInstance.
- The specified MetadataObject is an Association or a MethodInstance, and the ReturnPropertyDescriptor is required to not contain any TypeDescriptors for the specified type of the MethodInstance.
- The specified MetadataObject is a MethodInstance and the TypeDescriptor that contains the ReturnPropertyDescriptor is required not to contain any other TypeDescriptors for the specified type for the MethodInstance and the type for the LobSystem containing the Entity containing the specified MethodInstance.
- The specified MetadataObject is an Entity, and the specified CacheUsage or Version is invalid.
- The specified MetadataObject is a Parameter, and the specified direction is invalid.

- The specified MetadataObject is a MethodInstance, and the specified type is invalid.
- The specified MetadataObject is a TypeDescriptor, and the specified flags are invalid.
- The specified MetadataObject is a Parameter, and the Method that contains the specified Parameter already contains a Parameter with the **Direction** attribute set to "Return".
- The specified MetadataObject is a TypeDescriptor, and the Parameter containing the specified TypeDescriptor has the **Direction** attribute set to "In". However, the specified TypeDescriptor has the "Read-Only" for the **TypeDescriptorFlags** attribute.
- The specified MetadataObject is a Parameter, and the specified Parameter cannot have the **Direction** attribute set to "In" because one of the TypeDescriptors contained by the specified Parameter has the "Read-Only" value set is **TypeDescriptorFlags** attribute.
- The specified MetadataObject is a Parameter, and the specified Parameter cannot have the **Direction** attribute set to "In" because the specified Parameter contains a ReturnPropertyDescriptor of a MethodInstance.
- The specified MetadataObject is a TypeDescriptor, which has its Parameter is being changed to the specified Parameter, and the specified Parameter already has a root TypeDescriptor.
- The specified MetadataObject is a TypeDescriptor, and the "IsCollection" flag cannot be set on a TypeDescriptor if its containing TypeDescriptor also has the "IsCollection" flag set.
- The specified MetadataObject is a TypeDescriptor, and a TypeDescriptor with the "IsCollection" flag set can only contain one TypeDescriptor.
- The specified MetadataObject is a TypeDescriptor, and the FilterDescriptor associated with the specified TypeDescriptor is not defined for the Method that contains the Parameter containing the specified TypeDescriptor.
- The specified MetadataObject is a TypeDescriptor, and the Parameter containing the containing TypeDescriptor is different from the Parameter containing the specified TypeDescriptor.
- The specified MetadataObject is a TypeDescriptor, and the Parameter containing the specified TypeDescriptor has a TypeDescriptor hierarchy deeper than an implementation-specific, maximum-allowed depth.
- The specified MetadataObject is a TypeDescriptor, and the **ReadOnly** flag cannot be set because the Parameter of the specified TypeDescriptor has the **Direction** attribute set to "In".

This operation raises the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System) error under the following conditions:

- The operation cannot be performed because the specified MetadataObject is an Association or a MethodInstance contained by an active Entity.
- The operation cannot be performed because the specified MetadataObject is an Entity, which has its name or namespace being updated, and another Entity with the specified name and namespace is currently being referenced by other MetadataObjects.
- The operation cannot be performed because the specified MetadataObject is the FilterDescriptor, and one of the following conditions exists:
 - The Method associated with the specified FilterDescriptor already contains a FilterDescriptor of type TimestampFilter, and the specified FilterDescriptor is being updated to be a FilterDescriptor of type TimestampFilter.

- The Method that contains the specified FilterDescriptor also contains a MethodInstance of type ChangedIdEnumerator or a DeletedIdEnumerator, and the type of the FilterDescriptor is being changed from TimeStampFilter to another type.

This operation raises the [MetadataObjectNotFoundExceptionState \(from namespace Microsoft.SharePoint.BusinessData\)](#) error if the specified MetadataObject does not exist.

Upon successful completion of this operation, the protocol server MUST increment the object version of any MetadataObjects that it updated. If the incremented object version of the MetadataObject is greater than or equal to an implementation-specific maximum value, the protocol server MUST set the object version of the updated MetadataObjects to zero.

If the **metadataObjectStruct** element specifies any of the MetadataObjects in the following table, the protocol server MUST perform the corresponding actions, in addition to updating the specified MetadataObject in the metadata store.

MetadataObject	Action
Parameter	<p>If the ordinalNumber attribute of the specified Parameter is the same as the ordinalNumber attribute of another Parameter contained by the Method containing the specified Parameter, then the ordinalNumber attribute of Parameters contained by that Method that have the ordinalNumber attribute greater than or equal to the ordinalNumber attribute of the specified Parameter MUST be incremented.</p> <p>After the operation completes, all Parameters contained by the Method containing the specified Parameter MUST have ordinalNumber attributes in the range from zero to $n-1$, where n is the number of Parameters contained by that Method. Parameters not contained by the Method, which contains the specified Parameter, MUST NOT have their ordinalNumber attributes altered.</p>
MethodInstance	<p>When the isDefault attribute of the specified MethodInstance is set to TRUE, the protocol server MUST set the isDefault attribute of all other MethodInstances that have the same value for the MethodInstanceType attribute in the containing DataClass to FALSE. When the isDefault attribute of the specified MethodInstance is set to FALSE (and it was previously set to TRUE), the protocol server MUST set the isDefault attribute of a MethodInstance with the same value for MethodInstanceType in the containing DataClass to TRUE. The protocol server MUST determine the MethodInstance to alter, based on an implementation-specific algorithm.</p>

3.1.4.114.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.114.1.1 BusinessDataCatalogSharedService_Update_InputMessage

The request WSDL message for the **Update** WSDL operation.

The SOAP action value is:

```
http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/Update
```

The SOAP body contains the **Update** element.

3.1.4.114.1.2 BusinessDataCatalogSharedService_Update_OutputMessage

The response WSDL message for the **Update** WSDL operation.

The SOAP body contains the **UpdateResponse** element.

3.1.4.114.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.114.2.1 Update

The input data for the **Update** WSDL operation.

```
<xs:element name="Update">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q34="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q34:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The MetadataObject to update. The MetadataObjectId and the partition (1) of the specified MetadataObject MUST be used to identify the MetadataObject to update. The remaining values of the specified MetadataObject MUST be used to update the values associated with the identified MetadataObject in the metadata store.

3.1.4.114.2.2 UpdateResponse

The result data for the **Update** WSDL operation.

```
<xs:element name="UpdateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q35="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="UpdateResult" type="q35:MetadataObjectStruct"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

UpdateResult: The updated MetadataObject.

3.1.4.114.3 Complex Types

None.

3.1.4.114.4 Simple Types

None.

3.1.4.114.5 Attributes

None.

3.1.4.114.6 Groups

None.

3.1.4.114.7 Attribute Groups

None.

3.1.4.115 WriteSlicedXml

The **WriteSlicedXml** operation retrieves an implementation-specific string corresponding to the specified LobSystem or Model, [<89>](#) along with its included MetadataObjects. This operation can also optionally retrieve the localized names, Properties, and access control entries in all Settings. The protocol client typically uses this operation to back up a Model or an LobSystem in a specified partition (1). The [ReadSlicedXml](#) operation, as specified in section [3.1.4.100](#), can be used to restore the Model or LobSystem by specifying the string returned from this operation.

```
<wsdl:operation name="WriteSlicedXml">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage"/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Fault
Message"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMess
age"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault
_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Fault
Message"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMess
age"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_F
aultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
```

```

message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_FaultMessage"/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends a **BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage** request message, and the protocol server MUST respond with a **BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage** response message, unless any one of the conditions in the following table is met.

If any one of the conditions in the following table is met, the protocol server MUST instead respond with a SOAP fault containing the corresponding error complex type, serialized as specified in section 2.2.4. If more than one error condition is encountered, the protocol server MUST respond with exactly one error complex type, determined in an implementation-specific manner.

Error complex type	Condition
AccessDeniedExceptionState (from namespace http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure)	The security principal (1) in whose context the protocol client operates is not authorized to modify the specified Model or LobSystem.
ArgumentException (from namespace http://schemas.datacontract.org/2004/07/System)	The "InlineProxies" value requires the "Model" value to also be specified for the packageContents element.
MetadataObjectNotFoundExceptionState (from namespace Microsoft.SharePoint.BusinessData)	The specified Model or LobSystem does not exist.

3.1.4.115.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.115.1.1 BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage

The request WSDL message for the **WriteSlicedXml** WSDL operation.

The SOAP action value is:

```

http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/WriteSlicedXml

```

The SOAP body contains the **WriteSlicedXml** element.

3.1.4.115.1.2

BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage

The response WSDL message for the **WriteSlicedXml** WSDL operation.

The SOAP body contains the **WriteSlicedXmlResponse** element.

3.1.4.115.2 Elements

The following XML Schema element definitions are specific to this operation.

3.1.4.115.2.1 WriteSlicedXml

The input data for the **WriteSlicedXml** WSDL operation.

```
<xs:element name="WriteSlicedXml">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="metadataObjectStruct" type="q8:MetadataObjectStruct"/>
      <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="1" maxOccurs="1"
name="packageContents" type="q9:PackageContents"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadataObjectStruct: The LobSystem or Model to be retrieved. The partition (1) of this Model or LobSystem MUST be the partition (1) of the protocol client.

packageContents: This value of this element SHOULD [<90>](#) be set to "All".

3.1.4.115.2.2 WriteSlicedXmlResponse

The result data for the **WriteSlicedXml** WSDL operation.

```
<xs:element name="WriteSlicedXmlResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="WriteSlicedXmlResult" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

WriteSlicedXmlResult: An implementation-specific string representing the specified Model or LobSystem.

3.1.4.115.3 Complex Types

None.

3.1.4.115.4 Simple Types

None.

3.1.4.115.5 Attributes

None.

3.1.4.115.6 Groups

None.

3.1.4.115.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following examples describe the process of communication between the protocol server and protocol client. In conjunction with the protocol specification in this document, this information is intended to provide a comprehensive view of how the protocol client operates with the protocol server when running such an operation.

The examples in this section manipulate LobSystem and Entities. However, the concepts illustrated apply equally to other MetadataObjects.

4.1 Creating an LobSystem

This example illustrates how a user can create an LobSystem in the metadata store.

The following actions are carried out:

1. The user requests the protocol client to create an **LobSystem** named ExampleCRM.
2. The protocol client uses the **MetadataObjectCreate** operation as shown in the following code example.

```
// Assumes a service reference to the Business Data Connectivity shared service has
// been created.

// Instantiates the Business Data Connectivity SharedService client.
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

// Instantiates the AdministrationMetadataCatalogStruct complex type.
BDCServiceReference.AdministrationMetadataCatalogStruct myBDC = new
BDCServiceReference.AdministrationMetadataCatalogStruct();
myBDC.id = 1;

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
myBDC.partitionId = myPartition;

// Instantiates the LobSystem object.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();

// Sets up the LobSystem object.
myLob.partitionId = myPartition;
myLob.name = "ExampleCRM";
myLob.systemType = BDCServiceReference.SystemType.Database;

// Uses the MetadataObjectCreate operation to create the LobSystem.
myClient.MetadataObjectCreate(myLob, myBDC);
```

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/MetadataObjectCreate</a:Action>
    <a:MessageID>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:MessageID>
```

```

    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">
      http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
    </s:Header>
    <s:Body>
      <MetadataObjectCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
        <rawValues i:type="b:LobSystemStruct" xmlns:b="Microsoft.SharePoint.BusinessData"
          xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:id>0</b:id>
          <b:isCached>>false</b:isCached>
          <b:name>ExampleCRM</b:name>
          <b:objectVersion>0</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:systemType>Database</b:systemType>
        </rawValues>
        <parentStruct i:type="b:AdministrationMetadataCatalogStruct"
          xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
          instance">
          <b:id>1</b:id><b:isCached>>false</b:isCached><b:name
            i:nil="true"/><b:objectVersion>0</b:objectVersion><b:partitionId>0c37852b-34d0-418e-91c6-
            2ac25af4be5b</b:partitionId>
          </parentStruct>
        </MetadataObjectCreate>
      </s:Body>
    </s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
      alogSharedService/MetadataObjectCreateResponse</a:Action>
    <a:RelatesTo>urn:uuid:07dfbc23-b362-4f6d-b991-f0c3a0072d33</a:RelatesTo>
    </s:Header>
  <s:Body>
    <MetadataObjectCreateResponse
      xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <MetadataObjectCreateResult i:type="b:LobSystemStruct"
        xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
        instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
      </MetadataObjectCreateResult>
    </MetadataObjectCreateResponse>
  </s:Body>
</s:Envelope>

```

4.2 Setting the Security Information of a MetadataObject

This example illustrates how a user can set security information for an LobSystem.

This example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to set ACEs on the **LobSystem** named ExampleCRM.
2. The protocol client uses the **SetAccessControlEntries** operation as shown in the following code.

```
//This method shows how to set the ACL entries on an entity
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;
BDCServiceReference.AccessControlEntryStruct myACL;

//Instantiate the BDCSharedServiceClient
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

//First get the metadataobject with the name
myLob = new BDCServiceReference.LobSystemStruct();
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//setup the ACL object
myACL = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct();
myACL.rights = 23;
myACL.principalName = "Domain\\UserName";
myACL.principalDisplayName = "UserName";

myACLs = new ConsoleApplication1.BDCServiceReference.AccessControlEntryStruct[] {
myACL };

// set the ACL on the metadataobject by calling the SetAccessControlEntries method
myClient.SetAccessControlEntries(myLob, myACLs, null);
```

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SetAccessControlEntries</a:Action>
    <a:MessageID>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">
http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <SetAccessControlEntries
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:LobSystemStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>105</b:id>
        <b:isCached>>false</b:isCached>
        <b:name>ExampleCRM</b:name>
```



```

        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
    </metadataObjectStruct>
    <accessControlEntries xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:AccessControlEntryStruct>
            <b:principalBinaryForm i:nil="true"/>
            <b:principalDisplayName>UserName</b:principalDisplayName>
            <b:principalName>Domain\UserName</b:principalName>
            <b:rights>23</b:rights>
        </b:AccessControlEntryStruct>
    </accessControlEntries>
    <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</SetAccessControlEntries>
</s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
    <s:Header>
        <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SetAccessControlEntriesResponse</a:Action>
        <a:RelatesTo>urn:uuid:e6be3000-2833-4f14-a074-4d2d3728ab03</a:RelatesTo>
    </s:Header>
    <s:Body>
        <SetAccessControlEntriesResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
    </s:Body>
</s:Envelope>

```

4.3 Reading the Security Information of a MetadataObject

This example illustrates how a user can read the ACEs of an LobSystem.

This example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read ACEs for the **LobSystem** named ExampleCRM.
2. The protocol client uses the **GetAccessControlEntries** operation as shown in the following code.

```

//This method shows how to set the ACL entries on an entity.
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient;
BDCServiceReference.LobSystemStruct myLob;
BDCServiceReference.AccessControlEntryStruct[] myACLs;

//Instantiates the BDCSharedServiceClient.
myClient = new BDCServiceReference.BusinessDataCatalogSharedServiceClient();

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

```

```

//Obtain the metadaobject with the name.
myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Read the ACL entries on the entity
myACLs = myClient.GetAccessControlEntries(myLob, null, true);

```

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/GetAccessControlEntries</a:Action>
    <a:MessageID>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <GetAccessControlEntries
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:LobSystemStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>105</b:id>
        <b:isCached>false</b:isCached>
        <b:name>ExampleCRM</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:systemType>Database</b:systemType>
      </metadataObjectStruct>
      <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
      <fallback>true</fallback>
    </GetAccessControlEntries>
  </s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/GetAccessControlEntriesResponse</a:Action>
    <a:RelatesTo>urn:uuid:8a759af3-b45c-437b-ad53-0439cd70f9b3</a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetAccessControlEntriesResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetAccessControlEntriesResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:AccessControlEntryStruct>

```

```

        <b:principalBinaryForm i:nil="true"/>
        <b:principalDisplayName>UserName</b:principalDisplayName>
        <b:principalName>Domain\UserName</b:principalName>
        <b:rights>23</b:rights>
    </b:AccessControlEntryStruct>
</GetAccessControlEntriesResult>
</GetAccessControlEntriesResponse>
</s:Body>
</s:Envelope>

```

4.4 Creating an Entity

This example illustrates how a user can create an Entity in the metadata store.

The example assumes that:

- An LobSystem that contains the **Entity** is already created in the metadata store.
- The **LobSystem** is named ExampleCRM.
- The **PartitionId** used when creating the **LobSystem** is 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
- The **LobSystem** has an access control entry (ACE) associated with it.

The following actions are carried out:

1. The user requests the protocol client to create an **Entity** named Customer in the namespace example.com with an estimated instance count of 100.
2. The protocol client uses the **EntityCreate** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

//Obtain the LOB system before creating the entity.
BDCServiceReference.LobSystemStruct myLob = new BDCServiceReference.LobSystemStruct();
myLob = myClient.GetLobSystemByName("ExampleCRM", myPartition);

//Instantiate the entity object.
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

//Set properties.
myEntity.name = "Customer";
myEntity.@namespace = "example.com";
myEntity.isCached = true;
myEntity.objectVersion = 0;
System.Version ver = new Version(1,0,0,0);
myEntity.version = ver;
myEntity.partitionId = myPartition;
myEntity.estimatedInstanceCount = 100;

//Create the entity.
myClient.EntityCreate(myEntity,myLob,null);

```

3. The protocol server creates the **Entity** in the metadata store.
4. The protocol server copies the access control entry (ACE) of the **LobSystem** and associates it with the newly created **Entity**.

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
      alogSharedService/EntityCreate</a:Action>
    <a:MessageID>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
      s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
      rvice.svc</a:To>
    </s:Header>
    <s:Body>
      <EntityCreate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
        <rawValues xmlns:b="Microsoft.SharePoint.BusinessData"
          xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:id>0</b:id>
          <b:isCached>true</b:isCached>
          <b:name>Customer</b:name>
          <b:objectVersion>0</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:active>false</b:active>
          <b:lobSystemId>0</b:lobSystemId>
          <b:modelId>0</b:modelId>
          <b:namespace>example.com</b:namespace>
          <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
            <c:_Build>0</c:_Build>
            <c:_Major>1</c:_Major>
            <c:_Minor>0</c:_Minor>
            <c:_Revision>0</c:_Revision>
          </b:version>
          <b:cacheUsage>Default</b:cacheUsage>
          <b:description i:nil="true"/>
          <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
        </rawValues>
        <lobSystemStruct xmlns:b="Microsoft.SharePoint.BusinessData"
          xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:id>105</b:id>
          <b:isCached>false</b:isCached>
          <b:name>ExampleCRM</b:name>
          <b:objectVersion>0</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:systemType>Database</b:systemType>
        </lobSystemStruct>
        <modelStruct i:nil="true" xmlns:b="Microsoft.SharePoint.BusinessData"
          xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
      </EntityCreate>
    </s:Body>
  </s:Envelope>
```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/EntityCreateResponse</a:Action>
    <a:RelatesTo>urn:uuid:b0e7d48b-3a23-486c-85a8-82eed5c81168</a:RelatesTo>
  </s:Header>
  <s:Body>
    <EntityCreateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <EntityCreateResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>false</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </EntityCreateResult>
    </EntityCreateResponse>
  </s:Body>
</s:Envelope>
```

4.5 Activating an Entity

This example illustrates how a user can set a version of an Entity to be active in the metadata store.

This example assumes that:

- The preceding examples have successfully finished.
- After successfully creating the Customer **Entity**, the user has added some other MetadataObjects to it, such as an Identifier, a Method, and so on.

The following actions are carried out:

1. The user requests the protocol client to activate **Entity** named Customer in the namespace example.com with the **PartitionID** 0C37852B-34D0-418E-91C6-2AC25AF4BE5B.
2. The protocol client uses the **Activate** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
```

```

System.Version ver = new Version(1,0,0,0);

myEntity = myClient.GetEntityWithNameAndNamespaceAndVersion("example.com", "Customer",
ver, partition);

BDCServiceReference.EntityStruct activeent = myClient.Activate(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.
4. If it exists, the protocol server marks the **Entity** as active. All references to the **Entity** being activated are bound correctly.

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/Activate</a:Action>
    <a:MessageID>urn:uuid:351c762f-9a6f-4bc9-a208-9049c347c23d</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">http://ExampleSharePointServerURL/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <Activate xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <entityStruct xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>0</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </entityStruct>
    </Activate>
  </s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">

```

```

<s:Header>
  <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/ActivateResponse</a:Action>
  <a:RelatesTo>urn:uuid:d15e58ca-2cb9-4528-86f3-728a00f6c643</a:RelatesTo>
</s:Header>
<s:Body>
  <ActivateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
    <ActivateResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:id>106</b:id>
      <b:isCached>true</b:isCached>
      <b:name>Customer</b:name>
      <b:objectVersion>1</b:objectVersion>
      <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
      <b:active>true</b:active>
      <b:lobSystemId>105</b:lobSystemId>
      <b:modelId>0</b:modelId>
      <b:namespace>example.com</b:namespace>
      <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
        <c:_Build>0</c:_Build>
        <c:_Major>1</c:_Major>
        <c:_Minor>0</c:_Minor>
        <c:_Revision>0</c:_Revision>
      </b:version>
      <b:cacheUsage>Default</b:cacheUsage>
      <b:description i:nil="true"/>
      <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
    </ActivateResult>
  </ActivateResponse>
</s:Body>
</s:Envelope>

```

4.6 Reading an Entity

This example shows how a user can read an Entity in the metadata store.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to read an **Entity** named Customer in the namespace example.com from the metadata store.
2. The protocol client uses the **GetEntityWithNameAndNamespace** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.

4. If it exists, the protocol server retrieves the attributes of the stored **Entity**.
5. The protocol server returns an **Entity** object to the protocol client.

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace</a:Action>
    <a:MessageID>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcservice.svc</a:To>
  </s:Header>
  <s:Body>
    <GetEntityWithNameAndNamespace
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <namespace>example.com</namespace>
      <name>Customer</name>
      <partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</partitionId>
    </GetEntityWithNameAndNamespace>
  </s:Body>
</s:Envelope>
```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse</a:Action>
    <a:RelatesTo>urn:uuid:ec500dff-4a57-423f-b2d0-28822ca7a18f</a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetEntityWithNameAndNamespaceResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <GetEntityWithNameAndNamespaceResult xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
        <b:objectVersion>1</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
      </GetEntityWithNameAndNamespaceResult>
    </GetEntityWithNameAndNamespaceResponse>
  </s:Body>
</s:Envelope>
```



```

        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
    </GetEntityWithNameAndNamespaceResult>
</GetEntityWithNameAndNamespaceResponse>
</s:Body>
</s:Envelope>

```

4.7 Creating Properties for MetadataObjects

This example shows how a user can create Properties for an Entity in the metadata store. The concepts can be applied to any other MetadataObject.

The example assumes that the preceding examples have successfully finished.

The following actions are carried out:

1. The user requests the protocol client to create a **Property** for the **Entity** named Customer in the namespace example.com.
2. To add a custom **Property** named CustomerAlternateName, the protocol client uses the **SaveProperty** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
BDCServiceReference.PropertyStruct myProperty = new
BDCServiceReference.PropertyStruct();
System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

//Get the entity object using the name and namespace
myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

//Setup the Property object
myProperty.name = "CustomerAlternateName";
myProperty.typeName = "System.String";
myProperty.settingId = null;

//Add the custom propety to the entity object
myClient.SaveProperty(myEntity, myProperty);

```

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SaveProperty</a:Action>
    <a:MessageID>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
  </s:Body>
</s:Envelope>

```

```

    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
    </s:Header>
    <s:Body>
      <SaveProperty xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
        <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
          <b:id>106</b:id>
          <b:isCached>true</b:isCached>
          <b:name>Customer</b:name>
          <b:objectVersion>1</b:objectVersion>
          <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
          <b:active>true</b:active>
          <b:lobSystemId>105</b:lobSystemId>
          <b:modelId>0</b:modelId>
          <b:namespace>example.com</b:namespace>
          <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
            <c:_Build>0</c:_Build>
            <c:_Major>1</c:_Major>
            <c:_Minor>0</c:_Minor>
            <c:_Revision>0</c:_Revision>
          </b:version>
          <b:cacheUsage>Default</b:cacheUsage>
          <b:description i:nil="true"/>
          <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
        </metadataObjectStruct>
        <propertyStruct xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:needsTypeReflectionResolution>false</b:needsTypeReflectionResolution>
          <b:wcfMarshallableValue i:nil="true"/>
          <b:wcfMarshallableValueAssemblyQualifiedTypeName i:nil="true"/>
          <b:wcfMarshallableValueType i:nil="true"/>
          <b:metadataObjectId>0</b:metadataObjectId>
          <b:name>CustomerAlternateName</b:name>
          <b:settingId i:nil="true"/>
          <b:typeName>System.String</b:typeName>
        </propertyStruct>
      </SaveProperty>
    </s:Body>
  </s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SavePropertyResponse</a:Action>
    <a:RelatesTo>urn:uuid:00de94cd-c05e-4caa-81fb-bbceec7512f1</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SavePropertyResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

4.8 Adding Localized Names for MetadataObjects

This example shows how a user can add a localized name for an Entity in the metadata store. The concepts can be applied to any other **MetadataObject**.

The example assumes that the preceding examples have successfully finished and that the user wants to create the localized name for language code identifier (LCID) 2058.

The following actions are carried out:

1. The user requests the protocol client to create the localized name for the **Entity** named Customer in the namespace example.com.
2. The protocol client uses the **SaveLocalizedName** operation as shown in the following code example.

```
BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

System.Version ver = new Version(1,0,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

myClient.SaveLocalizedName(myEntity, 2058, "Cliente", null);
```

3. The protocol server checks whether an **Entity** named Customer in the namespace example.com exists in the metadata store.
4. If it exists, the protocol server creates the localized name for LCID 2058 and sets its value to "Cliente".

Request body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SaveLocalizedName</a:Action>
    <a:MessageID>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvise.svc</a:To>
  </s:Header>
  <s:Body>
    <SaveLocalizedName xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Customer</b:name>
```

```

    <b:objectVersion>1</b:objectVersion>
    <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
    <b:active>true</b:active>
    <b:lobSystemId>105</b:lobSystemId>
    <b:modelId>0</b:modelId>
    <b:namespace>example.com</b:namespace>
    <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
      <c:_Build>0</c:_Build>
      <c:_Major>1</c:_Major>
      <c:_Minor>0</c:_Minor>
      <c:_Revision>0</c:_Revision>
    </b:version>
    <b:cacheUsage>Default</b:cacheUsage>
    <b:description i:nil="true"/>
    <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
  </metadataObjectStruct>
  <lcid>2058</lcid>
  <name>Cliente</name>
  <settingId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"/>
</SaveLocalizedName>
</s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/SaveLocalizedNameResponse</a:Action>
    <a:RelatesTo>urn:uuid:ce45ad1e-4143-4a0d-9d34-4fe4822343f9</a:RelatesTo>
  </s:Header>
  <s:Body>
    <SaveLocalizedNameResponse
xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>

```

4.9 Updating an Entity

This example illustrates how a user can update an Entity in the metadata store.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to update **Entity** named Customer in the namespace example.com and changes its name from Customer to Buyer.
2. The protocol client uses the **Update** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();
BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();

```

```

System.Version ver = new Version(1,1,0,0);
Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Customer",
myPartition);

// Set the name property to "Buyer"
myEntity.name = "Buyer";

// Call update method.
myClient.Update(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.

4. If it exists, the protocol server updates the name attributes of the **Entity** with the supplied value.

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/Update</a:Action>
    <a:MessageID>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <Update xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Buyer</b:name>
        <b:objectVersion>2</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </metadataObjectStruct>
    </Update>
  </s:Body>
</s:Envelope>

```

```

    </s:Body>
</s:Envelope>

```

Response body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/UpdateResponse</a:Action>
    <a:RelatesTo>urn:uuid:6de95cfb-7309-4ef2-a8ba-05fe77b9cde4</a:RelatesTo>
  </s:Header>
  <s:Body>
    <UpdateResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <UpdateResult i:type="b:EntityStruct" xmlns:b="Microsoft.SharePoint.BusinessData"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Buyer</b:name>
        <b:objectVersion>3</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </UpdateResult>
    </UpdateResponse>
  </s:Body>
</s:Envelope>

```

4.10 Deleting an Entity

This example illustrates how a user can delete an Entity in the metadata store.

The example assumes that the preceding example has successfully finished.

The following actions are carried out:

1. The user requests the protocol client to delete **Entity** named Buyer in the namespace example.com.
2. The protocol client uses the **Delete** operation as shown in the following code example.

```

BDCServiceReference.BusinessDataCatalogSharedServiceClient myClient = new
BDCServiceReference.BusinessDataCatalogSharedServiceClient();

```

```

BDCServiceReference.EntityStruct myEntity = new BDCServiceReference.EntityStruct();
System.Version ver = new Version(1, 1);

Guid myPartition = new Guid("0c37852b-34d0-418e-91c6-2ac25af4be5b");

myEntity = myClient.GetEntityWithNameAndNamespace("example.com", "Buyer",
myPartition);
myClient.Delete(myEntity);

```

3. The protocol server checks whether the **Entity** exists in the metadata store.

4. If it exists, the protocol server deletes the **Entity** from the metadata store.

Request body:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/Delete</a:Action>
    <a:MessageID>urn:uuid:flee589a-df6b-48d1-83e4-9b28b2282414</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To
s:mustUnderstand="1">http://ExampleSharePointServerURL/1bb467a38f09487da2073b3553507d46/bdcse
rvice.svc</a:To>
  </s:Header>
  <s:Body>
    <Delete xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog">
      <metadataObjectStruct i:type="b:EntityStruct"
xmlns:b="Microsoft.SharePoint.BusinessData" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance">
        <b:id>106</b:id>
        <b:isCached>true</b:isCached>
        <b:name>Buyer</b:name>
        <b:objectVersion>3</b:objectVersion>
        <b:partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:partitionId>
        <b:active>true</b:active>
        <b:lobSystemId>105</b:lobSystemId>
        <b:modelId>0</b:modelId>
        <b:namespace>example.com</b:namespace>
        <b:version xmlns:c="http://schemas.datacontract.org/2004/07/System">
          <c:_Build>0</c:_Build>
          <c:_Major>1</c:_Major>
          <c:_Minor>0</c:_Minor>
          <c:_Revision>0</c:_Revision>
        </b:version>
        <b:cacheUsage>Default</b:cacheUsage>
        <b:description i:nil="true"/>
        <b:estimatedInstanceCount>100</b:estimatedInstanceCount>
      </metadataObjectStruct>
    </Delete>
  </s:Body>
</s:Envelope>

```

Response body:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCat
alogSharedService/DeleteResponse</a:Action>
    <a:RelatesTo>urn:uuid:f1ee589a-df6b-48d1-83e4-9b28b2282414</a:RelatesTo>
  </s:Header>
  <s:Body>
    <DeleteResponse xmlns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"/>
  </s:Body>
</s:Envelope>
```


5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:tns="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
name="IBdcServiceApplication"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema elementFormDefault="qualified"
targetNamespace="http://www.microsoft.com/Office/2009/BusinessDataCatalog"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xs:import namespace="Microsoft.SharePoint.BusinessData" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
Model.Constants" />
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" />
      <xs:element name="GetServiceApplicationId">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="GetServiceApplicationIdResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="GetServiceApplicationIdResult" type="q1:guid" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAllPartitionIds">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAllPartitionIdsResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="GetAllPartitionIdsResult" type="q2:ArrayOfguid" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ReadSlicedXml">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
            <xs:element xmlns:q3="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q3:PackageContents" />
            <xs:element xmlns:q4="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="parentStruct" type="q4:MetadataObjectStruct" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:schema>
  </wsdl:types>

```

```

        <xs:element xmlns:q5="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="readStruct" type="q5:MetadataObjectStruct" />
        <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ReadSlicedXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q6:ArrayOfstring" />
            <xs:element xmlns:q7="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="readStruct" type="q7:MetadataObjectStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="WriteSlicedXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q8="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q8:MetadataObjectStruct" />
            <xs:element xmlns:q9="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q9:PackageContents" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="WriteSlicedXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="WriteSlicedXmlResult"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="HaveRights">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q10="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q10:MetadataObjectStruct" />
            <xs:element
xmlns:q11="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
minOccurs="1" maxOccurs="1" name="rights" type="q11:BdcRights" />
            <xs:element minOccurs="1" maxOccurs="1" name="fallBack" type="xs:boolean" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="HaveRightsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="HaveRightsResult" type="xs:boolean"
/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesForMetadataObjectStruct">
    <xs:complexType>
        <xs:sequence>

```

```

        <xs:element xmlns:q12="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q12:MetadataObjectStruct" />
        <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesForMetadataObjectStructResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q13="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAllLocalizedNamesForMetadataObjectStructResult"
type="q13:ArrayOfLocalizedNameStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNames">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="metadataObjectId"
type="xs:unsignedInt" />
            <xs:element xmlns:q14="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q14:guid" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllLocalizedNamesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q15="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAllLocalizedNamesResult" type="q15:ArrayOfLocalizedNameStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStruct">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q16="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q16:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesForMetadataObjectStructResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q17="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAllPropertiesForMetadataObjectStructResult"
type="q17:ArrayOfPropertyStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllProperties">
    <xs:complexType>

```

```

        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="metadataObjectId"
type="xs:unsignedInt" />
            <xs:element xmlns:q18="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q18:guid" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="merged" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAllPropertiesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q19="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAllPropertiesResult" type="q19:ArrayOfPropertyStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedName">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q20="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q20:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SaveLocalizedNameResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="ClearLocalizedNames">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q21="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q21:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ClearLocalizedNamesResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="RemoveLocalizedName">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q22="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q22:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

        </xs:complexType>
      </xs:element>
      <xs:element name="RemoveLocalizedNameResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="SaveProperty">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q23="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q23:MetadataObjectStruct" />
            <xs:element xmlns:q24="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="propertyStruct" type="q24:PropertyStruct" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SavePropertyResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="ClearProperties">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q25="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q25:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ClearPropertiesResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="RemoveProperty">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q26="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q26:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="RemovePropertyResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAccessControlEntries">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q27="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q27:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>

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        <xs:element minOccurs="1" maxOccurs="1" name="fallback" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAccessControlEntriesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q28="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAccessControlEntriesResult" type="q28:ArrayOfAccessControlEntryStruct"
/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetAccessControlEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q29="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q29:MetadataObjectStruct" />
        <xs:element xmlns:q30="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="accessControlEntries" type="q30:ArrayOfAccessControlEntryStruct" />
        <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetAccessControlEntriesResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectCreate">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q31="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="rawValues" type="q31:MetadataObjectStruct" />
        <xs:element xmlns:q32="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="parentStruct" nillable="true" type="q32:MetadataObjectStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MetadataObjectCreateResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q33="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="MetadataObjectCreateResult" type="q33:MetadataObjectStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Update">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q34="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q34:MetadataObjectStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="UpdateResponse">
    <xs:complexType>
      <xs:sequence>

```

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        <xs:element xmlns:q35="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="UpdateResult" type="q35:MetadataObjectStruct" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Delete">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q36="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q36:MetadataObjectStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectMergeXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
            <xs:element xmlns:q37="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q37:PackageContents" />
            <xs:element xmlns:q38="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="parentStruct" type="q38:MetadataObjectStruct" />
            <xs:element xmlns:q39="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="mergedStruct" type="q39:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectMergeXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q40="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q40:ArrayOfstring" />
            <xs:element xmlns:q41="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="mergedStruct" type="q41:MetadataObjectStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
            <xs:element xmlns:q42="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q42:PackageContents" />
            <xs:element xmlns:q43="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="parentStruct" type="q43:MetadataObjectStruct" />
            <xs:element xmlns:q44="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="readStruct" type="q44:MetadataObjectStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MetadataObjectReadXmlResponse">
    <xs:complexType>

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        <xs:sequence>
          <xs:element xmlns:q45="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q45:ArrayOfstring" />
          <xs:element xmlns:q46="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="readStruct" type="q46:MetadataObjectStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="MetadataObjectWriteXml">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q47="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q47:MetadataObjectStruct" />
          <xs:element xmlns:q48="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q48:PackageContents" />
          <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="MetadataObjectWriteXmlResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="MetadataObjectWriteXmlResult"
type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="CopyAclAcrossChildren">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q49="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q49:MetadataObjectStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="CopyAclAcrossChildrenResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="CopyAclAcrossChildrenForSetting">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q50="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q50:MetadataObjectStruct" />
          <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="CopyAclAcrossChildrenForSettingResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="CopyAclToSetting">
      <xs:complexType>
        <xs:sequence>

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        <xs:element xmlns:q51="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q51:MetadataObjectStruct" />
        <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="CopyAclToSettingResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSince">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="dateTime" type="xs:dateTime" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetCacheInvalidationRecordsSinceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q52="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetCacheInvalidationRecordsSinceResult"
type="q52:ArrayOfCacheInvalidationRecordStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackage">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
            <xs:element xmlns:q53="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q53:PackageContents" />
            <xs:element xmlns:q54="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="adminStruct" type="q54:AdministrationMetadataCatalogStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
            <xs:element minOccurs="1" maxOccurs="1" name="updateModel" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackageResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q55="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="ImportPackageResult" type="q55:ModelStruct" />
            <xs:element xmlns:q56="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q56:ArrayOfstring" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
            <xs:element xmlns:q57="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q57:PackageContents" />

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        <xs:element xmlns:q58="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="adminStruct" type="q58:AdministrationMetadataCatalogStruct" />
        <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
        <xs:element minOccurs="1" maxOccurs="1" name="updateModel" type="xs:boolean" />
        <xs:element xmlns:q59="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="jobId" type="q59:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ImportPackageWithProgressResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q60="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="ImportPackageWithProgressResult" type="q60:ModelStruct" />
            <xs:element xmlns:q61="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q61:ArrayOfstring" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetImportProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q62="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="jobId" type="q62:guid" />
            <xs:element xmlns:q63="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q63:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetImportProgressResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="GetImportProgressResult"
type="xs:double" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPackage">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q64="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="modelStruct" type="q64:ModelStruct" />
            <xs:element xmlns:q65="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q65:PackageContents" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPackageResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="ExportPackageResult"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetModelById">

```

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    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="modelId" type="xs:unsignedInt" />
        <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
        <xs:element xmlns:q66="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q66:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetModelByIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q67="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetModelByIdResult" nillable="true" type="q67:ModelStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetModelsByName">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="wildcardedName" type="xs:string" />
        <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
        <xs:element xmlns:q68="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q68:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetModelsByNameResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q69="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetModelsByNameResult" type="q69:ArrayOfModelStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetModelByName">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string" />
        <xs:element xmlns:q70="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q70:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetModelByNameResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q71="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetModelByNameResult" type="q71:ModelStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetModelsByEntityId">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt" />
        <xs:element xmlns:q72="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q72:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

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    </xs:complexType>
  </xs:element>
  <xs:element name="GetModelsByEntityIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q73="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetModelsByEntityIdResult" type="q73:ArrayOfModelStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddEntityToModel">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q74="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="modelStruct" type="q74:ModelStruct" />
        <xs:element xmlns:q75="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStruct" type="q75:EntityStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddEntityToModelResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveEntityFromModel">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q76="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="modelStruct" type="q76:ModelStruct" />
        <xs:element xmlns:q77="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStruct" type="q77:EntityStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveEntityFromModelResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteNoCascade">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q78="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="metadataObjectStruct" type="q78:MetadataObjectStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteNoCascadeResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="ModelReadXml">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
        <xs:element xmlns:q79="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q79:PackageContents" />

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        <xs:element xmlns:q80="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="applicationRegistryStruct" type="q80:MetadataObjectStruct" />
        <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
        <xs:element minOccurs="1" maxOccurs="1" name="updateModel" type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ModelReadXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q81="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="ModelReadXmlResult" type="q81:ModelStruct" />
            <xs:element xmlns:q82="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" maxOccurs="1" name="errors" type="q82:ArrayOfstring" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemId">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q83="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="lobSystemStruct" type="q83:LobSystemStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemProxyAssemblyBytesByLobSystemIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1"
name="GetLobSystemProxyAssemblyBytesByLobSystemIdResult" nillable="true"
type="xs:base64Binary" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemAllAssembliesBytes">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q84="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="lobSystemStruct" type="q84:LobSystemStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemAllAssembliesBytesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q85="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" maxOccurs="1" name="GetLobSystemAllAssembliesBytesResult"
type="q85:ArrayOfbase64Binary" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemDataByLobSystem">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q86="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="lobSystemStruct" type="q86:LobSystemStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemDataByLobSystemResponse">

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        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q87="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="0" maxOccurs="1" name="GetLobSystemDataByLobSystemResult" nillable="true"
type="q87:ProxyGenerationResult" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SetLobSystemDataByLobSystemId">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"
/>
          <xs:element
xmlns:q88="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="1" maxOccurs="1" name="proxyGenerationResult" type="q88:ProxyGenerationResult" />
          <xs:element xmlns:q89="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q89:guid" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SetLobSystemDataByLobSystemIdResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="modelId" type="xs:unsignedInt" />
            <xs:element
xmlns:q90="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
Model.Constants" minOccurs="1" maxOccurs="1" name="queryMode"
type="q90:LobSystemConstants.LobSystemsInModelQuery" />
            <xs:element xmlns:q91="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q91:guid" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      <xs:element name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q92="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetLobSystemsReferencedByEntitiesAssociatedWithModelResult"
type="q92:ArrayOfLobSystemStruct" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      <xs:element name="GetLobSystemByName">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string" />
            <xs:element xmlns:q93="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q93:guid" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      <xs:element name="GetLobSystemByNameResponse">
        <xs:complexType>

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        <xs:sequence>
          <xs:element xmlns:q94="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetLobSystemByNameResult" type="q94:LobSystemStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemsLikeName">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="searchLikeName" type="xs:string" />
          <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
          <xs:element xmlns:q95="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q95:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemsLikeNameResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q96="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetLobSystemsLikeNameResult" type="q96:ArrayOfLobSystemStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemById">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"
/>
          <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
          <xs:element xmlns:q97="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q97:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemByIdResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q98="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetLobSystemByIdResult" nillable="true" type="q98:LobSystemStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetEntityCount">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"
/>
          <xs:element xmlns:q99="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q99:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetEntityCountResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="GetEntityCountResult" type="xs:int"
/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>

```



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        </xs:complexType>
    </xs:element>
    <xs:element name="GetSystemUtilityTypeNameForLobSystem">
        <xs:complexType>
            <xs:sequence>
                <xs:element xmlns:q100="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="lobSystemStruct" type="q100:LobSystemStruct" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GetSystemUtilityTypeNameForLobSystemResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="1" maxOccurs="1"
name="GetSystemUtilityTypeNameForLobSystemResult" type="xs:string" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GenerateProxyAssemblyForLobSystem">
        <xs:complexType>
            <xs:sequence>
                <xs:element xmlns:q101="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="lobSystemStruct" type="q101:LobSystemStruct" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GenerateProxyAssemblyForLobSystemResponse">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="DeleteProxyAssemblyForLobSystem">
        <xs:complexType>
            <xs:sequence>
                <xs:element xmlns:q102="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="lobSystemStruct" type="q102:LobSystemStruct" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="DeleteProxyAssemblyForLobSystemResponse">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemInstancesForLobSystem">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"
/>
                <xs:element xmlns:q103="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q103:guid" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GetLobSystemInstancesForLobSystemResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element xmlns:q104="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetLobSystemInstancesForLobSystemResult"
type="q104:ArrayOfLobSystemInstanceStruct" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>

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        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstanceById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="lobSystemInstanceId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q105="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q105:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLobSystemInstanceByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q106="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetLobSystemInstanceByIdResult" nillable="true"
type="q106:LobSystemInstanceStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetDataClassesForSystem">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"
/>
            <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean" />
            <xs:element xmlns:q107="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q107:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetDataClassesForSystemResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q108="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetDataClassesForSystemResult" type="q108:ArrayOfDataClassStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetDataClassById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"
/>
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q109="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q109:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetDataClassByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q110="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetDataClassByIdResult" nillable="true" type="q110:DataClassStruct" />

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        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelId">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="metadataObjectId"
type="xs:unsignedInt" />
            <xs:element
xmlns:q111="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
aModel.Constants" minOccurs="1" maxOccurs="1" name="mode"
type="q111:EntityConstants.EntitiesInModelQuery" />
            <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean" />
            <xs:element xmlns:q112="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q112:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesReferencedByModelIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q113="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetEntitiesReferencedByModelIdResult" type="q113:ArrayOfEntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespace">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="wildcardedNamespace"
type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="wildcardedName" type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
            <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean" />
            <xs:element xmlns:q114="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q114:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesLikeNameAndNamespaceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q115="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetEntitiesLikeNameAndNamespaceResult" type="q115:ArrayOfEntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespace">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="namespace" type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string" />
            <xs:element xmlns:q116="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q116:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceResponse">
    <xs:complexType>
        <xs:sequence>

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        <xs:element xmlns:q117="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetEntityWithNameAndNamespaceResult" type="q117:EntityStruct" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersion">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="namespace" type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string" />
            <xs:element xmlns:q118="http://schemas.datacontract.org/2004/07/System"
minOccurs="1" maxOccurs="1" name="version" type="q118:Version" />
            <xs:element xmlns:q119="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q119:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityWithNameAndNamespaceAndVersionResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q120="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetEntityWithNameAndNamespaceAndVersionResult" type="q120:EntityStruct"
/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystem">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="lobSystemId" type="xs:unsignedInt"
/>
            <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean" />
            <xs:element xmlns:q121="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q121:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForSystemResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q122="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetEntitiesForSystemResult" type="q122:ArrayOfEntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="associationId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte" />
            <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean" />
            <xs:element xmlns:q123="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q123:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntitiesForAssociationAndRoleResponse">
    <xs:complexType>
        <xs:sequence>

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        <xs:element xmlns:q124="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetEntitiesForAssociationAndRoleResult" type="q124:ArrayOfEntityStruct"
/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SetDefaultActionForEntity">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q125="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStruct" type="q125:EntityStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="actionName" type="xs:string" />
            <xs:element xmlns:q126="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q126:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetDefaultActionForEntityResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="associationId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte" />
            <xs:element xmlns:q127="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q127:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityNameAndNamespacesForAssociationAndRoleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q128="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="namespaces" type="q128:ArrayOfstring" />
            <xs:element
xmlns:q129="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="names" type="q129:ArrayOfstring" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q130="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q130:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEntityByIdResponse">
    <xs:complexType>
        <xs:sequence>

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        <xs:element xmlns:q131="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetEntityByIdResult" nillable="true" type="q131:EntityStruct" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="EntityCreate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q132="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="rawValues" type="q132:EntityStruct" />
            <xs:element xmlns:q133="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="lobSystemStruct" type="q133:LobSystemStruct" />
            <xs:element xmlns:q134="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="modelStruct" nillable="true" type="q134:ModelStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="EntityCreateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q135="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="EntityCreateResult" type="q135:EntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Activate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q136="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStruct" type="q136:EntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ActivateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q137="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="ActivateResult" type="q137:EntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Deactivate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q138="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStruct" type="q138:EntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeactivateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q139="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="DeactivateResult" type="q139:EntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidate">
    <xs:complexType>
        <xs:sequence>

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        <xs:element xmlns:q140="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStructs" type="q140:ArrayOfEntityStruct" />
        <xs:element minOccurs="1" maxOccurs="1" name="validate" type="xs:boolean" />
        <xs:element xmlns:q141="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="modelStruct" nillable="true" type="q141:ModelStruct" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="BulkSwitchActiveOrValidateResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q142="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="BulkSwitchActiveOrValidateResult"
type="q142:ArrayOfActivationErrorRecordStruct" />
            <xs:element xmlns:q143="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStructs" type="q143:ArrayOfEntityStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="actionId" type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q144="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q144:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q145="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetActionByIdResult" nillable="true" type="q145:ActionStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionsForEntity">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt" />
            <xs:element xmlns:q146="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q146:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionsForEntityResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q147="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetActionsForEntityResult" type="q147:ArrayOfActionStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionParameterById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="actionParameterId"
type="xs:unsignedInt" />

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        <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
        <xs:element xmlns:q148="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q148:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetActionParameterByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q149="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetActionParameterByIdResult" nillable="true"
type="q149:ActionParameterStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionParametersForAction">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="actionId" type="xs:unsignedInt" />
            <xs:element xmlns:q150="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q150:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetActionParametersForActionResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q151="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetActionParametersForActionResult"
type="q151:ArrayOfActionParameterStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifierById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="identifierId" type="xs:unsignedInt"
/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifierByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q152="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q152:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifierByIdResult">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q153="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetIdentifierByIdResult" nillable="true" type="q153:IdentifierStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifiersForEntity">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt" />
            <xs:element xmlns:q154="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q154:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>

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        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetIdentifiersForEntityResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q155="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetIdentifiersForEntityResult" type="q155:ArrayOfIdentifierStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q156="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q156:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q157="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetMethodByIdResult" nillable="true" type="q157:MethodStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClass">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"
/>
            <xs:element xmlns:q158="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q158:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodsForDataClassResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q159="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetMethodsForDataClassResult" type="q159:ArrayOfMethodStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiated">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt" />
            <xs:element xmlns:q160="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q160:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsMethodInstantiatedResponse">
    <xs:complexType>
        <xs:sequence>

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        <xs:element minOccurs="1" maxOccurs="1" name="IsMethodInstantiatedResult"
type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="filterDescriptorId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q161="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q161:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q162="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetFilterDescriptorByIdResult" nillable="true"
type="q162:FilterDescriptorStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorsForMethod">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt" />
            <xs:element xmlns:q163="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q163:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFilterDescriptorsForMethodResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q164="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetFilterDescriptorsForMethodResult"
type="q164:ArrayOfFilterDescriptorStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstanceById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="methodInstanceId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q165="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q165:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstanceByIdResponse">
    <xs:complexType>
        <xs:sequence>

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        <xs:element xmlns:q166="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetMethodInstanceByIdResult" nillable="true"
type="q166:MethodInstanceStruct" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForDataClass">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"
/>
            <xs:element xmlns:q167="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q167:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForDataClassResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q168="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetMethodInstancesForDataClassResult"
type="q168:ArrayOfMethodInstanceStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForMethod">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt" />
            <xs:element xmlns:q169="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q169:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMethodInstancesForMethodResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q170="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetMethodInstancesForMethodResult"
type="q170:ArrayOfMethodInstanceStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstances">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"
/>
            <xs:element minOccurs="1" maxOccurs="1" name="dottedPath" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element xmlns:q171="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="1" maxOccurs="1" name="type" type="q171:MethodInstanceType" />
    <xs:element xmlns:q172="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q172:guid" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="CheckPathInMethodInstancesResponse">
    <xs:complexType>
        <xs:sequence>

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        <xs:element minOccurs="1" maxOccurs="1" name="CheckPathInMethodInstancesResult"
type="xs:boolean" />
        <xs:element minOccurs="1" maxOccurs="1" name="methodInstanceId"
type="xs:unsignedInt" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetParameterById">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"
/>
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q173="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q173:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetParameterByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q174="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetParameterByIdResult" nillable="true" type="q174:ParameterStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethod">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt" />
            <xs:element xmlns:q175="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q175:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetParametersForMethodResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q176="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetParametersForMethodResult" type="q176:ArrayOfParameterStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstance">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"
/>
            <xs:element xmlns:q177="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q177:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsParameterReferencedByMethodInstanceResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1"
name="IsParameterReferencedByMethodInstanceResult" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>

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    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeReflectorTypeNameForParameter">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q178="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="parameterStruct" type="q178:ParameterStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeReflectorTypeNameForParameterResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1"
name="GetTypeReflectorTypeNameForParameterResult" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q179="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="typeDescriptorStruct" type="q179:TypeDescriptorStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q180="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResult"
type="q180:ArrayOfTypeDescriptorStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetFieldTypeDescriptorsByMethodInstance">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="methodName"
type="xs:string" />
        <xs:element xmlns:q181="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="entityStruct" type="q181:EntityStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetFieldTypeDescriptorsByMethodInstanceResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q182="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetFieldTypeDescriptorsByMethodInstanceResult"
type="q182:ArrayOfTypeDescriptorStruct" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTypeDescriptorById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="typeDescriptorId"
type="xs:unsignedInt" />

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        <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
        <xs:element xmlns:q183="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q183:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q184="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetTypeDescriptorByIdResult" nillable="true"
type="q184:TypeDescriptorStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"
/>
            <xs:element xmlns:q185="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q185:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRootTypeDescriptorForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q186="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetRootTypeDescriptorForParameterResult" type="q186:TypeDescriptorStruct"
/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameter">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="name" type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="parameterId" type="xs:unsignedInt"
/>
            <xs:element minOccurs="1" maxOccurs="1" name="level" type="xs:int" />
            <xs:element xmlns:q187="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q187:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsByNameAndLevelForParameterResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q188="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetTypeDescriptorsByNameAndLevelForParameterResult"
type="q188:ArrayOfTypeDescriptorStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>

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        <xs:element minOccurs="1" maxOccurs="1" name="parentTypeDescriptorId"
type="xs:unsignedInt" />
        <xs:element xmlns:q189="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q189:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetChildTypeDescriptorsForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q190="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetChildTypeDescriptorsForTypeDescriptorResult"
type="q190:ArrayOfTypeDescriptorStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsForFilterDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="filterDescriptorId"
type="xs:unsignedInt" />
            <xs:element xmlns:q191="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q191:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTypeDescriptorsForFilterDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q192="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetTypeDescriptorsForFilterDescriptorResult"
type="q192:ArrayOfTypeDescriptorStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetDefaultValuesForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="typeDescriptorId"
type="xs:unsignedInt" />
            <xs:element xmlns:q193="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q193:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetDefaultValuesForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q194="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetDefaultValuesForTypeDescriptorResult"
type="q194:ArrayOfDefaultValueStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetDefaultValuesForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q195="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="defaultValueStruct" type="q195:DefaultValueStruct" />

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        <xs:element xmlns:q196="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q196:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SetDefaultValuesForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="DeleteDefaultValueForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="typeDescriptorId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="methodInstanceId"
type="xs:unsignedInt" />
            <xs:element xmlns:q197="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q197:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteDefaultValueForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="GetLevelForTypeDescriptor">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q198="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="typeDescriptorStruct" type="q198:TypeDescriptorStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLevelForTypeDescriptorResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="GetLevelForTypeDescriptorResult"
type="xs:unsignedInt" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorCreate">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q199="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="rawValues" type="q199:TypeDescriptorStruct" />
            <xs:element xmlns:q200="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="parentTypeDescriptorStruct" nillable="true"
type="q200:TypeDescriptorStruct" />
            <xs:element xmlns:q201="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="parameterStruct" type="q201:ParameterStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorCreateResponse">
    <xs:complexType>
        <xs:sequence>

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        <xs:element xmlns:q202="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="TypeDescriptorCreateResult" type="q202:TypeDescriptorStruct" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorMergeXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
            <xs:element xmlns:q203="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q203:PackageContents" />
            <xs:element xmlns:q204="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="parameterStruct" type="q204:ParameterStruct" />
            <xs:element xmlns:q205="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="parentTypeDescriptorStruct" nillable="true"
type="q205:TypeDescriptorStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
            <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorMergeXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q206="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="TypeDescriptorMergeXmlResult" type="q206:TypeDescriptorStruct" />
            <xs:element
xmlns:q207="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="errors" type="q207:ArrayOfstring" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorReadXml">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="xml" type="xs:string" />
            <xs:element xmlns:q208="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="packageContents" type="q208:PackageContents" />
            <xs:element xmlns:q209="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="parameterStruct" type="q209:ParameterStruct" />
            <xs:element xmlns:q210="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="parentTypeDescriptorStruct" nillable="true"
type="q210:TypeDescriptorStruct" />
            <xs:element minOccurs="1" maxOccurs="1" name="callerCultureLcid" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="TypeDescriptorReadXmlResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q211="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="TypeDescriptorReadXmlResult" type="q211:TypeDescriptorStruct" />
            <xs:element
xmlns:q212="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="errors" type="q212:ArrayOfstring" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationById">

```

```

        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="associationId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
            <xs:element xmlns:q213="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q213:guid" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAssociationByIdResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q214="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetAssociationByIdResult" type="q214:AssociationStruct" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAssociationsForEntityAndRole">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte" />
            <xs:element minOccurs="1" maxOccurs="1" name="activeOnly" type="xs:boolean" />
            <xs:element xmlns:q215="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q215:guid" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAssociationsForEntityAndRoleResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q216="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAssociationsForEntityAndRoleResult"
type="q216:ArrayOfAssociationStruct" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAssociationsForDataClass">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="dataClassId" type="xs:unsignedInt"
/>
            <xs:element xmlns:q217="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q217:guid" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAssociationsForDataClassResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q218="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAssociationsForDataClassResult" type="q218:ArrayOfAssociationStruct"
/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetAssociationsForMethod">
        <xs:complexType>

```

```

        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="methodId" type="xs:unsignedInt" />
            <xs:element xmlns:q219="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q219:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationsForMethodResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q220="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAssociationsForMethodResult" type="q220:ArrayOfAssociationStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationMembersInRole">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="associationId"
type="xs:unsignedInt" />
            <xs:element minOccurs="1" maxOccurs="1" name="role" type="xs:unsignedByte" />
            <xs:element xmlns:q221="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q221:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetAssociationMembersInRoleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q222="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAssociationMembersInRoleResult"
type="q222:ArrayOfAssociationMemberStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetThrottlingRules">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="GetThrottlingRulesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q223="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetThrottlingRulesResult" type="q223:ArrayOfSafetyNetStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddThrottlingRule">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q224="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="safetyNetStruct" type="q224:SafetyNetStruct" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddThrottlingRuleResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>

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</xs:element>
<xs:element name="RemoveThrottlingRule">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q225="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="safetyNetStruct" type="q225:SafetyNetStruct" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveThrottlingRuleResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="associationGroupId"
type="xs:unsignedInt" />
      <xs:element minOccurs="1" maxOccurs="1" name="performErrorCheck"
type="xs:boolean" />
      <xs:element xmlns:q226="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q226:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q227="Microsoft.SharePoint.BusinessData" minOccurs="0"
maxOccurs="1" name="GetAssociationGroupByIdResult" nillable="true"
type="q227:AssociationGroupStruct" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntity">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt" />
      <xs:element xmlns:q228="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q228:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationGroupsForEntityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q229="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAssociationGroupsForEntityResult"
type="q229:ArrayOfAssociationGroupStruct" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetAssociationReferencesForAssociationGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="associationGroupId"
type="xs:unsignedInt" />
      <xs:element xmlns:q230="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q230:guid" />

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        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetAssociationReferencesForAssociationGroupResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q231="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="GetAssociationReferencesForAssociationGroupResult"
type="q231:ArrayOfAssociationReferenceStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AddAssociationReferenceToAssociationGroup">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q232="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="associationGroupStruct" type="q232:AssociationGroupStruct" />
          <xs:element xmlns:q233="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="associationReferenceStruct" type="q233:AssociationReferenceStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AddAssociationReferenceToAssociationGroupResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q234="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="AddAssociationReferenceToAssociationGroupResult"
type="q234:AssociationGroupStruct" />
          <xs:element xmlns:q235="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="associationReferenceStruct" type="q235:AssociationReferenceStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="DeleteAssociationReferenceFromAssociationGroup">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q236="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="associationReferenceStruct" type="q236:AssociationReferenceStruct" />
          <xs:element xmlns:q237="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" maxOccurs="1" name="partitionId" type="q237:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="DeleteAssociationReferenceFromAssociationGroupResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetXmlSchemaForView">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q238="Microsoft.SharePoint.BusinessData" minOccurs="1"
maxOccurs="1" name="methodInstanceStruct" type="q238:MethodInstanceStruct" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetXmlSchemaForViewResponse">
      <xs:complexType>
        <xs:sequence>

```

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        <xs:element minOccurs="0" maxOccurs="1" name="GetXmlSchemaForViewResult"
nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="anyType" nillable="true" type="xs:anyType" />
    <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
    <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
    <xs:element name="boolean" nillable="true" type="xs:boolean" />
    <xs:element name="byte" nillable="true" type="xs:byte" />
    <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
    <xs:element name="decimal" nillable="true" type="xs:decimal" />
    <xs:element name="double" nillable="true" type="xs:double" />
    <xs:element name="float" nillable="true" type="xs:float" />
    <xs:element name="int" nillable="true" type="xs:int" />
    <xs:element name="long" nillable="true" type="xs:long" />
    <xs:element name="QName" nillable="true" type="xs:QName" />
    <xs:element name="short" nillable="true" type="xs:short" />
    <xs:element name="string" nillable="true" type="xs:string" />
    <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
    <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
    <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
    <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
    <xs:element name="char" nillable="true" type="tns:char" />
    <xs:simpleType name="char">
        <xs:restriction base="xs:int" />
    </xs:simpleType>
    <xs:element name="duration" nillable="true" type="tns:duration" />
    <xs:simpleType name="duration">
        <xs:restriction base="xs:duration">
            <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
            <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
            <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="guid" nillable="true" type="tns:guid" />
    <xs:simpleType name="guid">
        <xs:restriction base="xs:string">
            <xs:pattern value="\{da-fA-F\}{8}-\{da-fA-F\}{4}-\{da-fA-F\}{4}-\{da-fA-F\}{4}-\{da-fA-F\}{12}" />
        </xs:restriction>
    </xs:simpleType>
    <xs:attribute name="FactoryType" type="xs:QName" />
    <xs:attribute name="Id" type="xs:ID" />
    <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:complexType name="ArrayOfguid">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid" />

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        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfguid" nillable="true" type="tns:ArrayOfguid" />
      <xs:complexType name="ArrayOfstring">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
      <xs:complexType name="ArrayOfunsignedInt">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfunsignedInt" nillable="true" type="tns:ArrayOfunsignedInt" />
      <xs:complexType name="ArrayOfbase64Binary">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfbase64Binary" nillable="true" type="tns:ArrayOfbase64Binary"
/>
    </xs:schema>
    <xs:schema xmlns:tns="Microsoft.SharePoint.BusinessData"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified" targetNamespace="Microsoft.SharePoint.BusinessData"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="Microsoft.BusinessData.SharePoint" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific" />
      <xs:complexType name="DuplicateMetadataObjectExceptionState">
        <xs:complexContent mixed="false">
          <xs:extension xmlns:q1="Microsoft.BusinessData.SharePoint"
base="q1:MetadataException">
            <xs:sequence>
              <xs:element minOccurs="0" name="DuplicateFieldName" nillable="true"
type="xs:string" />
              <xs:element minOccurs="0" name="DuplicateMetadataObjectName" nillable="true"
type="xs:string" />
            </xs:sequence>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:element name="DuplicateMetadataObjectExceptionState" nillable="true"
type="tns:DuplicateMetadataObjectExceptionState" />
      <xs:complexType name="InvalidMetadataPropertyExceptionState">
        <xs:complexContent mixed="false">
          <xs:extension xmlns:q2="Microsoft.BusinessData.SharePoint"
base="q2:MetadataException">
            <xs:sequence>

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        <xs:element minOccurs="0" name="InvalidPropertyName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="MetadataObjectName" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="InvalidMetadataPropertyExceptionState" nillable="true"
type="tns:InvalidMetadataPropertyExceptionState" />
    <xs:complexType name="ConcurrentModificationExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q3="Microsoft.BusinessData.SharePoint"
base="q3:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="MetadataObjectId" type="xs:unsignedInt" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="ConcurrentModificationExceptionState" nillable="true"
type="tns:ConcurrentModificationExceptionState" />
    <xs:complexType name="MetadataObjectNotFoundExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q4="Microsoft.BusinessData.SharePoint"
base="q4:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="SearchCriteria" nillable="true"
type="xs:string" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="MetadataObjectNotFoundExceptionState" nillable="true"
type="tns:MetadataObjectNotFoundExceptionState" />
    <xs:complexType name="ExceededMetadataObjectLimitExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q5="Microsoft.BusinessData.SharePoint"
base="q5:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="Limit" type="xs:int" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="ExceededMetadataObjectLimitExceptionState" nillable="true"
type="tns:ExceededMetadataObjectLimitExceptionState" />
    <xs:complexType name="InvalidMetadataObjectExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q6="Microsoft.BusinessData.SharePoint"
base="q6:MetadataException">
                <xs:sequence>
                    <xs:element minOccurs="0" name="InvalidFieldName" nillable="true"
type="xs:string" />
                    <xs:element minOccurs="0" name="InvalidMetadataObjectId" type="xs:unsignedInt"
/>
                    <xs:element minOccurs="0" name="InvalidMetadataObjectName" nillable="true"
type="xs:string" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>

```



```

        </xs:complexContent>
    </xs:complexType>
    <xs:element name="InvalidMetadataObjectExceptionState" nillable="true"
type="tns:InvalidMetadataObjectExceptionState" />
    <xs:simpleType name="PackageContents">
        <xs:list>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="None">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                    <xs:enumeration value="Model">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                    <xs:enumeration value="LocalizedNames">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                    <xs:enumeration value="Permissions">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                    <xs:enumeration value="Properties">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                    <xs:enumeration value="InlineProxies">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                    <xs:enumeration value="All">
                        <xs:annotation>
                            <xs:appinfo>

```

```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">31</EnumerationValue>
    </xs:appinfo>
    </xs:annotation>
    </xs:enumeration>
    </xs:restriction>
    </xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:element name="PackageContents" nillable="true" type="tns:PackageContents" />
<xs:complexType name="MetadataObjectStruct">
    <xs:sequence>
        <xs:element minOccurs="1" name="id" type="xs:unsignedInt" />
        <xs:element minOccurs="1" name="isCached" type="xs:boolean" />
        <xs:element minOccurs="1" name="name" type="xs:string" />
        <xs:element minOccurs="1" name="objectVersion" type="xs:int" />
        <xs:element minOccurs="1" name="partitionId" type="ser:guid" />
    </xs:sequence>
</xs:complexType>
<xs:element name="MetadataObjectStruct" nillable="true" type="tns:MetadataObjectStruct"
/>

<xs:complexType name="DataClassStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="active" type="xs:boolean" />
                <xs:element minOccurs="0" name="lobSystemId" type="xs:unsignedInt" />
                <xs:element minOccurs="0" name="modelId" type="xs:unsignedInt" />
                <xs:element minOccurs="0" name="namespace" nillable="true" type="xs:string" />
                <xs:element xmlns:q7="http://schemas.datacontract.org/2004/07/System"
minOccurs="0" name="version" nillable="true" type="q7:Version" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="DataClassStruct" nillable="true" type="tns:DataClassStruct" />
<xs:complexType name="EntityStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:DataClassStruct">
            <xs:sequence>
                <xs:element
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
minOccurs="1" maxOccurs="1" name="cacheUsage" type="q8:CacheUsage" />
                <xs:element minOccurs="1" maxOccurs="1" name="description" nillable="true"
type="xs:string" />
                <xs:element minOccurs="1" maxOccurs="1" name="estimatedInstanceCount"
type="xs:unsignedInt" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="EntityStruct" nillable="true" type="tns:EntityStruct" />
<xs:complexType name="LobSystemStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:MetadataObjectStruct">
            <xs:sequence>
                <xs:element
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="systemType" type="q9:SystemType" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

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        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="LobSystemInstanceStruct" nillable="true"
type="tns:LobSystemInstanceStruct" />
  <xs:complexType name="ActionParameterStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="0" name="actionId" type="xs:unsignedInt" />
          <xs:element minOccurs="0" name="index" type="xs:unsignedByte" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ActionParameterStruct" nillable="true"
type="tns:ActionParameterStruct" />
  <xs:complexType name="AdministrationMetadataCatalogStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MetadataObjectStruct">
        <xs:sequence />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AdministrationMetadataCatalogStruct" nillable="true"
type="tns:AdministrationMetadataCatalogStruct" />
  <xs:complexType name="AssociationGroupStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MetadataObjectStruct">
        <xs:sequence>
          <xs:element
xmlns:q14="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="associationEntityNames" nillable="true" type="q14:ArrayOfstring" />
          <xs:element
xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="associationEntityNamespaces" nillable="true" type="q15:ArrayOfstring" />
          <xs:element
xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="associationIds" nillable="true" type="q16:ArrayOfunsignedInt" />
          <xs:element
xmlns:q17="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="1"
maxOccurs="1" name="associationNames" nillable="true" type="q17:ArrayOfstring" />
          <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"
/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AssociationGroupStruct" nillable="true"
type="tns:AssociationGroupStruct" />
  <xs:complexType name="ActionStruct">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:MetadataObjectStruct">
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="entityId" type="xs:unsignedInt"
/>
          <xs:element minOccurs="1" maxOccurs="1" name="imageUrl" type="xs:string" />
          <xs:element minOccurs="1" maxOccurs="1" name="isOpenedInNewWindow"
type="xs:boolean" />

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        <xs:element minOccurs="1" maxOccurs="1" name="position" type="xs:unsignedByte"
/>
        <xs:element minOccurs="1" maxOccurs="1" name="url" type="xs:string" />
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="ActionStruct" nillable="true" type="tns:ActionStruct" />
<xs:complexType name="FilterDescriptorStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="filterField" nillable="true" type="xs:string"
/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="FilterType" type="q18:FilterType" />
    <xs:element minOccurs="0" name="methodId" type="xs:unsignedInt" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="FilterDescriptorStruct" nillable="true"
type="tns:FilterDescriptorStruct" />
<xs:complexType name="IdentifierStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt" />
                <xs:element minOccurs="0" name="ordinalNumber" type="xs:unsignedByte" />
                <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="IdentifierStruct" nillable="true" type="tns:IdentifierStruct" />
<xs:complexType name="MethodStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:MetadataObjectStruct">
            <xs:sequence>
                <xs:element minOccurs="1" name="entityId" type="xs:unsignedInt" />
                <xs:element minOccurs="1" name="isStatic" type="xs:boolean" />
                <xs:element minOccurs="1" name="lobName" type="xs:string" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="MethodStruct" nillable="true" type="tns:MethodStruct" />
<xs:complexType name="ModelStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:MetadataObjectStruct">
            <xs:sequence />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ModelStruct" nillable="true" type="tns:ModelStruct" />
<xs:complexType name="TypeDescriptorStruct">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:MetadataObjectStruct">

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        <xs:sequence>
          <xs:element minOccurs="1" name="associationId" type="xs:unsignedInt" />
          <xs:element minOccurs="0" name="associationReferenceEntityName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="associationReferenceEntityNamespace"
nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="associationReferenceName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="1" name="childrenContainRules" type="xs:boolean" />
          <xs:element minOccurs="1" name="containsFilterDescriptor" type="xs:boolean" />
          <xs:element minOccurs="1" name="containsIdentifier" type="xs:boolean" />
          <xs:element minOccurs="1" name="containsReadOnly" type="xs:boolean" />
          <xs:element minOccurs="1" name="filterDescriptorId" type="xs:unsignedInt" />
          <xs:element
xmlns:q19="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
minOccurs="0" name="flags" type="q19:TypeDescriptorFlags" />
          <xs:element minOccurs="1" name="identifierId" type="xs:unsignedInt" />
          <xs:element minOccurs="0" name="identifierReferenceEntityName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="identifierReferenceEntityNamespace"
nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="identifierReferenceName" nillable="true"
type="xs:string" />
          <xs:element minOccurs="0" name="lobName" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="parameterId" type="xs:unsignedInt" />
          <xs:element minOccurs="1" name="parentTypeDescriptorId" type="xs:unsignedInt"
/>
          <xs:element minOccurs="0" name="serializedRules" nillable="true"
type="xs:string" />
          <xs:element minOccurs="1" name="typeName" type="xs:string" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="TypeDescriptorStruct" nillable="true" type="tns:TypeDescriptorStruct"
/>

  <xs:complexType name="PackageFormatExceptionState">
    <xs:sequence>
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
      <xs:element xmlns:q20="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ParseErrors" nillable="true" type="q20:ArrayOfstring" />
      <xs:element minOccurs="0" name="SerializedInnerSystemException" nillable="true"
type="xs:base64Binary" />
      <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="PackageFormatExceptionState" nillable="true"
type="tns:PackageFormatExceptionState" />
  <xs:complexType name="ArrayOfLocalizedNameStruct">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="LocalizedNameStruct"
nillable="true" type="tns:LocalizedNameStruct" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfLocalizedNameStruct" nillable="true"
type="tns:ArrayOfLocalizedNameStruct" />
  <xs:complexType name="LocalizedNameStruct">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:unsignedInt" />

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        <xs:element minOccurs="1" maxOccurs="1" name="metadataObjectId"
type="xs:unsignedInt" />
        <xs:element minOccurs="1" maxOccurs="1" name="settingId" nillable="true"
type="xs:string" />
        <xs:element minOccurs="1" maxOccurs="1" name="vblue" nillable="true"
type="xs:string" />
    </xs:sequence>
</xs:complexType>
    <xs:element name="LocalizedNameStruct" nillable="true" type="tns:LocalizedNameStruct"
/>

    <xs:complexType name="ArrayOfPropertyStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyStruct"
nillable="true" type="tns:PropertyStruct" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfPropertyStruct" nillable="true"
type="tns:ArrayOfPropertyStruct" />
    <xs:complexType name="PropertyStruct">
        <xs:complexContent mixed="false">
            <xs:extension base="tns:ComplexValueStruct">
                <xs:sequence>
                    <xs:element minOccurs="0" name="metadataObjectId" type="xs:unsignedInt" />
                    <xs:element minOccurs="0" name="name" nillable="true" type="xs:string" />
                    <xs:element minOccurs="0" name="settingId" nillable="true" type="xs:string" />
                    <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="PropertyStruct" nillable="true" type="tns:PropertyStruct" />
    <xs:complexType name="ComplexValueStruct">
        <xs:sequence>
            <xs:element minOccurs="0" name="needsTypeReflectionResolution" type="xs:boolean" />
            <xs:element minOccurs="0" name="wcfMarshallableValue" nillable="true"
type="xs:anyType" />
            <xs:element minOccurs="0" name="wcfMarshallableValueAssemblyQualifiedTypeName"
nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="wcfMarshallableValueTypeName" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ComplexValueStruct" nillable="true" type="tns:ComplexValueStruct" />
    <xs:complexType name="DefaultValueStruct">
        <xs:complexContent mixed="false">
            <xs:extension base="tns:ComplexValueStruct">
                <xs:sequence>
                    <xs:element minOccurs="1" name="methodInstanceId" type="xs:unsignedInt" />
                    <xs:element minOccurs="1" name="methodInstanceName" type="xs:string" />
                    <xs:element minOccurs="1" name="typeDescriptorId" type="xs:unsignedInt" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="DefaultValueStruct" nillable="true" type="tns:DefaultValueStruct" />
    <xs:complexType name="ArrayOfAccessControlEntryStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessControlEntryStruct"
nillable="true" type="tns:AccessControlEntryStruct" />
        </xs:sequence>
    </xs:complexType>

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        </xs:complexType>
        <xs:element name="ArrayOfAccessControlEntryStruct" nillable="true"
type="tns:ArrayOfAccessControlEntryStruct" />
        <xs:complexType name="AccessControlEntryStruct">
        <xs:sequence>
        <xs:element minOccurs="0" name="principalBinaryForm" nillable="true"
type="xs:base64Binary" />
        <xs:element minOccurs="0" name="principalDisplayName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="principalName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="rights" type="xs:unsignedLong" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="AccessControlEntryStruct" nillable="true"
type="tns:AccessControlEntryStruct" />
        <xs:complexType name="ArrayOfCacheInvalidationRecordStruct">
        <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded"
name="CacheInvalidationRecordStruct" nillable="true" type="tns:CacheInvalidationRecordStruct"
/>
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfCacheInvalidationRecordStruct" nillable="true"
type="tns:ArrayOfCacheInvalidationRecordStruct" />
        <xs:complexType name="CacheInvalidationRecordStruct">
        <xs:sequence>
        <xs:element minOccurs="0" name="cacheLine" type="xs:long" />
        <xs:element minOccurs="0" name="counter" type="xs:int" />
        <xs:element minOccurs="0" name="partitionId" type="ser:guid" />
        <xs:element minOccurs="0" name="timestamp" type="xs:dateTime" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="CacheInvalidationRecordStruct" nillable="true"
type="tns:CacheInvalidationRecordStruct" />
        <xs:complexType name="ArrayOfModelStruct">
        <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ModelStruct" nillable="true"
type="tns:ModelStruct" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfModelStruct" nillable="true" type="tns:ArrayOfModelStruct" />
        <xs:complexType name="ArrayOfLobSystemStruct">
        <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemStruct"
nillable="true" type="tns:LobSystemStruct" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfLobSystemStruct" nillable="true"
type="tns:ArrayOfLobSystemStruct" />
        <xs:complexType name="ArrayOfLobSystemInstanceStruct">
        <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LobSystemInstanceStruct"
nillable="true" type="tns:LobSystemInstanceStruct" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfLobSystemInstanceStruct" nillable="true"
type="tns:ArrayOfLobSystemInstanceStruct" />
        <xs:complexType name="ArrayOfDataClassStruct">
        <xs:sequence>

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        <xs:element minOccurs="0" maxOccurs="unbounded" name="DataClassStruct"
nillable="true" type="tns:DataClassStruct" />
    </xs:sequence>
</xs:complexType>
    <xs:element name="ArrayOfDataClassStruct" nillable="true"
type="tns:ArrayOfDataClassStruct" />
    <xs:complexType name="ArrayOfEntityStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="EntityStruct" nillable="true"
type="tns:EntityStruct" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfEntityStruct" nillable="true" type="tns:ArrayOfEntityStruct"
/>
    <xs:complexType name="ArrayOfActivationErrorRecordStruct">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="ActivationErrorRecordStruct"
nillable="true" type="tns:ActivationErrorRecordStruct" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfActivationErrorRecordStruct" nillable="true"
type="tns:ArrayOfActivationErrorRecordStruct" />
    <xs:complexType name="ActivationErrorRecordStruct">
        <xs:sequence>
            <xs:element minOccurs="0" name="aGAssociationEntityReferenceName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="aGAssociationEntityReferenceNamespace"
nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="aGAssociationReferenceName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="containingAssociationGroupName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="containingEntityName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="containingEntityNamespace" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="containingEntityVersion" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="containingMethodName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="containingParameterName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="containingTypeDescriptorId" type="xs:unsignedInt"
/>
            <xs:element minOccurs="0" name="containingTypeDescriptorName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="errorCode" type="xs:int" />
            <xs:element minOccurs="0" name="tDAssociationEntityReferenceName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="tDAssociationEntityReferenceNamespace"
nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="tDAssociationReferenceName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="tDIDEntityReferenceName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="tDIDEntityReferenceNamespace" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="tDIDReferenceName" nillable="true" type="xs:string"
/>
            <xs:element minOccurs="0" name="tDIDReferenceTypeName" nillable="true"
type="xs:string" />

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        </xs:sequence>
      </xs:complexType>
      <xs:element name="ActivationErrorRecordStruct" nillable="true"
type="tns:ActivationErrorRecordStruct" />
      <xs:complexType name="ArrayOfActionStruct">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionStruct" nillable="true"
type="tns:ActionStruct" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfActionStruct" nillable="true" type="tns:ArrayOfActionStruct"
/>
      <xs:complexType name="ArrayOfActionParameterStruct">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="ActionParameterStruct"
nillable="true" type="tns:ActionParameterStruct" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfActionParameterStruct" nillable="true"
type="tns:ArrayOfActionParameterStruct" />
      <xs:complexType name="ArrayOfIdentifierStruct">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="IdentifierStruct"
nillable="true" type="tns:IdentifierStruct" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfIdentifierStruct" nillable="true"
type="tns:ArrayOfIdentifierStruct" />
      <xs:complexType name="ArrayOfMethodStruct">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodStruct" nillable="true"
type="tns:MethodStruct" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfMethodStruct" nillable="true" type="tns:ArrayOfMethodStruct"
/>
      <xs:complexType name="ArrayOfFilterDescriptorStruct">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="FilterDescriptorStruct"
nillable="true" type="tns:FilterDescriptorStruct" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfFilterDescriptorStruct" nillable="true"
type="tns:ArrayOfFilterDescriptorStruct" />
      <xs:complexType name="ArrayOfMethodInstanceStruct">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="MethodInstanceStruct"
nillable="true" type="tns:MethodInstanceStruct" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfMethodInstanceStruct" nillable="true"
type="tns:ArrayOfMethodInstanceStruct" />
      <xs:complexType name="ArrayOfParameterStruct">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="ParameterStruct"
nillable="true" type="tns:ParameterStruct" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="ArrayOfParameterStruct" nillable="true"
type="tns:ArrayOfParameterStruct" />

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    <xs:complexType name="ArrayOfTypeDescriptorStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="TypeDescriptorStruct"
nillable="true" type="tns:TypeDescriptorStruct" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfTypeDescriptorStruct" nillable="true"
type="tns:ArrayOfTypeDescriptorStruct" />
    <xs:complexType name="ArrayOfDefaultValueStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="DefaultValueStruct"
nillable="true" type="tns:DefaultValueStruct" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfDefaultValueStruct" nillable="true"
type="tns:ArrayOfDefaultValueStruct" />
    <xs:complexType name="ArrayOfAssociationStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationStruct"
nillable="true" type="tns:AssociationStruct" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfAssociationStruct" nillable="true"
type="tns:ArrayOfAssociationStruct" />
    <xs:complexType name="ArrayOfAssociationMemberStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationMemberStruct"
nillable="true" type="tns:AssociationMemberStruct" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfAssociationMemberStruct" nillable="true"
type="tns:ArrayOfAssociationMemberStruct" />
    <xs:complexType name="AssociationMemberStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="_entityName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="_entityNamespace" nillable="true" type="xs:string"
/>

        <xs:element minOccurs="0" name="associationId" type="xs:unsignedInt" />
        <xs:element minOccurs="0" name="entityId" type="xs:unsignedInt" />
        <xs:element minOccurs="0" name="partitionId" type="ser:guid" />
        <xs:element minOccurs="0" name="role" type="xs:unsignedByte" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="AssociationMemberStruct" nillable="true"
type="tns:AssociationMemberStruct" />
    <xs:complexType name="ArrayOfSafetyNetStruct">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SafetyNetStruct"
nillable="true" type="tns:SafetyNetStruct" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfSafetyNetStruct" nillable="true"
type="tns:ArrayOfSafetyNetStruct" />
    <xs:complexType name="SafetyNetStruct">
      <xs:sequence>
        <xs:element minOccurs="0" name="defaultLimit" type="xs:int" />
        <xs:element minOccurs="0" name="enabled" type="xs:boolean" />
        <xs:element minOccurs="0" name="maxLimit" type="xs:int" />
        <xs:element minOccurs="0" name="proxyId" type="ser:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:sequence>
</xs:complexType>

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        <xs:element
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
minOccurs="0" name="throttleScope" type="q21:ThrottleScope" />
        <xs:element
xmlns:q22="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
minOccurs="0" name="throttleType" type="q22:ThrottleType" />
    </xs:sequence>
</xs:complexType>
<xs:element name="SafetyNetStruct" nillable="true" type="tns:SafetyNetStruct" />
<xs:complexType name="ArrayOfAssociationGroupStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationGroupStruct"
nillable="true" type="tns:AssociationGroupStruct" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAssociationGroupStruct" nillable="true"
type="tns:ArrayOfAssociationGroupStruct" />
<xs:complexType name="ArrayOfAssociationReferenceStruct">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AssociationReferenceStruct"
nillable="true" type="tns:AssociationReferenceStruct" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAssociationReferenceStruct" nillable="true"
type="tns:ArrayOfAssociationReferenceStruct" />
<xs:complexType name="AssociationReferenceStruct">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="_associationName" type="xs:string" />
        <xs:element minOccurs="1" maxOccurs="1" name="_entityName" type="xs:string" />
        <xs:element minOccurs="1" maxOccurs="1" name="_entityNamespace" type="xs:string" />
        <xs:element minOccurs="1" maxOccurs="1" name="associationGroupId"
type="xs:unsignedInt" />
        <xs:element minOccurs="1" maxOccurs="1" name="associationGroupObjectVersion"
type="xs:int" />
        <xs:element minOccurs="1" maxOccurs="1" name="associationId" type="xs:unsignedInt" />
    </xs:sequence>
</xs:complexType>
<xs:element name="AssociationReferenceStruct" nillable="true"
type="tns:AssociationReferenceStruct" />
</xs:schema>
<xs:schema xmlns:tns="Microsoft.BusinessData.SharePoint" elementFormDefault="qualified"
targetNamespace="Microsoft.BusinessData.SharePoint"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="MetadataException">
        <xs:sequence>
            <xs:element minOccurs="0" name="explicitMessage" type="xs:boolean" />
            <xs:element minOccurs="0" name="innerExceptionToStringed" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="innerExceptionTypeFullName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="metadataObjectTypeName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="serverStackTrace" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>

```

```

        <xs:element name="MetadataException" nillable="true" type="tns:MetadataException" />
    </xs:schema>
    <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System"
        xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
        elementFormDefault="qualified"
        targetNamespace="http://schemas.datacontract.org/2004/07/System"
        xmlns:xs="http://www.w3.org/2001/XMLSchema">
        <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xs:complexType name="InvalidOperationException">
            <xs:complexContent mixed="false">
                <xs:extension base="tns:SystemException" />
            </xs:complexContent>
        </xs:complexType>
        <xs:element name="InvalidOperationException" nillable="true"
type="tns:InvalidOperationException" />
        <xs:complexType name="SystemException">
            <xs:complexContent mixed="false">
                <xs:extension base="tns:Exception" />
            </xs:complexContent>
        </xs:complexType>
        <xs:element name="SystemException" nillable="true" type="tns:SystemException" />
        <xs:complexType name="Exception">
            <xs:sequence>
                <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
processContents="skip" />
            </xs:sequence>
            <xs:attribute ref="ser:FactoryType" />
        </xs:complexType>
        <xs:element name="Exception" nillable="true" type="tns:Exception" />
        <xs:complexType name="Version">
            <xs:sequence>
                <xs:element name="_Build" type="xs:int" />
                <xs:element name="_Major" type="xs:int" />
                <xs:element name="_Minor" type="xs:int" />
                <xs:element name="_Revision" type="xs:int" />
            </xs:sequence>
        </xs:complexType>
        <xs:element name="Version" nillable="true" type="tns:Version" />
        <xs:complexType name="ArgumentOutOfRangeException">
            <xs:complexContent mixed="false">
                <xs:extension base="tns:ArgumentException" />
            </xs:complexContent>
        </xs:complexType>
        <xs:element name="ArgumentOutOfRangeException" nillable="true"
type="tns:ArgumentOutOfRangeException" />
        <xs:complexType name="ArgumentException">
            <xs:complexContent mixed="false">
                <xs:extension base="tns:SystemException" />
            </xs:complexContent>
        </xs:complexType>
        <xs:element name="ArgumentException" nillable="true" type="tns:ArgumentException" />
        <xs:complexType name="ArgumentNullException">
            <xs:complexContent mixed="false">
                <xs:extension base="tns:ArgumentException" />
            </xs:complexContent>
        </xs:complexType>
        <xs:element name="ArgumentNullException" nillable="true"
type="tns:ArgumentNullException" />
    </xs:schema>

```

```

<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Runtime"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="CacheUsage">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Default" />
      <xs:enumeration value="Online" />
      <xs:enumeration value="Cached" />
      <xs:enumeration value="Offline" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="CacheUsage" nillable="true" type="tns:CacheUsage" />
  <xs:complexType name="ProxyGenerationResult">
    <xs:sequence>
      <xs:element minOccurs="0" name="compiledBytes" nillable="true"
type="xs:base64Binary" />
      <xs:element minOccurs="0" name="fingerprint" nillable="true" type="xs:base64Binary"
/>
      <xs:element minOccurs="0" name="sourceCode" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ProxyGenerationResult" nillable="true"
type="tns:ProxyGenerationResult" />
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.MetadataModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="SystemType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Database">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="WebService">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Custom">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Wcf">
        <xs:annotation>

```

```

        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DotNetAssembly">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
<xs:element name="SystemType" nillable="true" type="tns:SystemType" />
<xs:simpleType name="MethodInstanceType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Finder">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="SpecificFinder">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="GenericInvoker">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="IdEnumerator">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Scalar">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>

```

```

    <xs:enumeration value="AccessChecker">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Creator">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Updater">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Deleter">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="ChangedIdEnumerator">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DeletedIdEnumerator">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">12</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="AssociationNavigator">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">13</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Associator">
      <xs:annotation>
        <xs:appinfo>

```



```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">14</EnumerationValue>
        </xs:appinfo>
        </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Disassociator">
        <xs:annotation>
            <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">15</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="StreamAccessor">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
                    </xs:appinfo>
                </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="BinarySecurityDescriptorAccessor">
                <xs:annotation>
                    <xs:appinfo>
                        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">17</EnumerationValue>
                        </xs:appinfo>
                    </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="BulkSpecificFinder">
                    <xs:annotation>
                        <xs:appinfo>
                            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">20</EnumerationValue>
                            </xs:appinfo>
                        </xs:annotation>
                    </xs:enumeration>
                    <xs:enumeration value="BulkAssociatedIdEnumerator">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">22</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                        <xs:enumeration value="BulkAssociationNavigator">
                            <xs:annotation>
                                <xs:appinfo>
                                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">23</EnumerationValue>
                                    </xs:appinfo>
                                </xs:annotation>
                            </xs:enumeration>
                            <xs:enumeration value="BulkIdEnumerator">
                                <xs:annotation>
                                    <xs:appinfo>
                                        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">24</EnumerationValue>
                                        </xs:appinfo>
                                    </xs:annotation>
                                </xs:enumeration>

```

```

        </xs:enumeration>
    </xs:restriction>
</xs:simpleType>
<xs:element name="MethodInstanceType" nillable="true" type="tns:MethodInstanceType" />
<xs:simpleType name="DirectionType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="In">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Out">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="InOut">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Return">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
    </xs:restriction>
</xs:simpleType>
<xs:element name="DirectionType" nillable="true" type="tns:DirectionType" />
<xs:simpleType name="FilterType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Comparison">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="LastId">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
    </xs:restriction>
</xs:simpleType>

```

```

    <xs:enumeration value="Limit">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PageNumber">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Password">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="SsoTicket">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Timestamp">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="UserContext">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Username">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="UserProfile">
      <xs:annotation>
        <xs:appinfo>

```

```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">12</EnumerationValue>
        </xs:appinfo>
        </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Wildcard">
        <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">13</EnumerationValue>
            </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Input">
            <xs:annotation>
            <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">14</EnumerationValue>
                </xs:appinfo>
                </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Output">
                <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">15</EnumerationValue>
                    </xs:appinfo>
                    </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="InputOutput">
                    <xs:annotation>
                    <xs:appinfo>
                        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
                        </xs:appinfo>
                        </xs:annotation>
                    </xs:enumeration>
                    <xs:enumeration value="Batching">
                        <xs:annotation>
                        <xs:appinfo>
                            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">17</EnumerationValue>
                            </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                        <xs:enumeration value="BatchingTermination">
                            <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">18</EnumerationValue>
                                </xs:appinfo>
                                </xs:annotation>
                            </xs:enumeration>
                            <xs:enumeration value="UserCulture">
                                <xs:annotation>
                                <xs:appinfo>
                                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">19</EnumerationValue>
                                    </xs:appinfo>
                                    </xs:annotation>
                                </xs:enumeration>

```

```

        </xs:enumeration>
        <xs:enumeration value="ActivityId">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">20</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="FilterType" nillable="true" type="tns:FilterType" />
    <xs:simpleType name="TypeDescriptorFlags">
      <xs:annotation>
        <xs:appinfo>
          <ActualType Name="short" Namespace="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
        </xs:appinfo>
      </xs:annotation>
    </xs:element>
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="None">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="CreatorField">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="UpdaterField">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="PreUpdaterField">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="IsCollection">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>

```

```

        </xs:appinfo>
        </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="ReadOnly">
        <xs:annotation>
            <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
            </xs:appinfo>
        </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Significant">
        <xs:annotation>
            <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">32</EnumerationValue>
            </xs:appinfo>
        </xs:annotation>
    </xs:enumeration>
</xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>
    <xs:element name="TypeDescriptorFlags" nillable="true" type="tns:TypeDescriptorFlags"
/>
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecific"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.SystemSpecifi
c" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:simpleType name="ThrottleScope">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Global" />
            <xs:enumeration value="Database" />
            <xs:enumeration value="WebService" />
            <xs:enumeration value="Wcf" />
            <xs:enumeration value="Custom" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="ThrottleScope" nillable="true" type="tns:ThrottleScope" />
    <xs:simpleType name="ThrottleType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="None" />
            <xs:enumeration value="Items" />
            <xs:enumeration value="Size" />
            <xs:enumeration value="Connections" />
            <xs:enumeration value="Timeout" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="ThrottleType" nillable="true" type="tns:ThrottleType" />
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure
e" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.datacontract.org/2004/07/System" />
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:complexType name="AccessDeniedException">

```

```

        <xs:complexContent mixed="false">
            <xs:extension base="tns:BdcException" />
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="AccessDeniedException" nillable="true"
type="tns:AccessDeniedException" />
    <xs:complexType name="BdcException">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
base="q1:Exception" />
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="BdcException" nillable="true" type="tns:BdcException" />
    <xs:complexType name="BdcExceptionState">
        <xs:sequence>
            <xs:element minOccurs="0" name="InnerExceptionToStringed" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="InnerExceptionTypeFullName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="ServerStackTrace" nillable="true" type="xs:string"
/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="BdcExceptionState" nillable="true" type="tns:BdcExceptionState" />
    <xs:complexType name="AccessDeniedExceptionState">
        <xs:complexContent mixed="false">
            <xs:extension base="tns:BdcExceptionState">
                <xs:sequence>
                    <xs:element minOccurs="1" maxOccurs="1" name="CurrentIdentity" type="xs:string"
/>
                    <xs:element minOccurs="1" maxOccurs="1" name="SecurableObjectName"
type="xs:string" />
                    <xs:element minOccurs="1" maxOccurs="1" name="SecurableObjectTypeName"
type="xs:string" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="AccessDeniedExceptionState" nillable="true"
type="tns:AccessDeniedExceptionState" />
    <xs:simpleType name="BdcRights">
        <xs:annotation>
            <xs:appinfo>
                <ActualType Name="long" Namespace="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
            </xs:appinfo>
        </xs:annotation>
        <xs:list>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="None">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
                            </xs:appinfo>
                        </xs:annotation>
                    </xs:enumeration>
                    <xs:enumeration value="Execute">

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        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Edit">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="SetPermissions">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="UseInBusinessDataInLists">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="SelectableInClients">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:element name="BdcRights" nillable="true" type="tns:BdcRights" />
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Metadata
Model.Constants" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.BusinessData.Me
tadataModel.Constants" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="LobSystemConstants.LobSystemsInModelQuery">
    <xs:annotation>
      <xs:appinfo>
        <ActualType Name="unsignedByte" Namespace="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
      </xs:appinfo>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllLobSystemsInModel" />
      <xs:enumeration value="OwnedLobSystemsInModel" />
    </xs:restriction>
  </xs:simpleType>

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        <xs:enumeration value="SharedLobSystemsInModel" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="LobSystemConstants.LobSystemsInModelQuery" nillable="true"
type="tns:LobSystemConstants.LobSystemsInModelQuery" />
<xs:simpleType name="EntityConstants.EntitiesInModelQuery">
    <xs:restriction base="xs:string">
        <xs:enumeration value="AllEntitiesInModel" />
        <xs:enumeration value="OwnedEntitiesInModel" />
        <xs:enumeration value="SharedEntitiesInModel" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="EntityConstants.EntitiesInModelQuery" nillable="true"
type="tns:EntityConstants.EntitiesInModelQuery" />
</xs:schema>
</wsdl:types>
<wsdl:message name="BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceApplicationId" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceApplicationIdResponse" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPartitionIds" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPartitionIdsResponse" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFault_Fault
tMessage">
    <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_FaultMes
sage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q2:AccessDeniedException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_FaultMe
ssage">
    <wsdl:part xmlns:q3="Microsoft.BusinessData.SharePoint" name="detail"
element="q3:MetadataException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_FaultMessage
">
    <wsdl:part
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q4:BdcExceptionState" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns:ReadSlicedXml" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:ReadSlicedXmlResponse" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultMessage"
>
    <wsdl:part
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q5:AccessDeniedException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q6="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q6:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_FaultMessage"
>
    <wsdl:part xmlns:q7="Microsoft.SharePoint.BusinessData" name="detail"
element="q7:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q8:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q9="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q9:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q10="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q10:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q11="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q11:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_FaultMessage"
">
    <wsdl:part xmlns:q12="Microsoft.BusinessData.SharePoint" name="detail"
element="q12:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage">
    <wsdl:part name="parameters" element="tns:WriteSlicedXml" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage">
    <wsdl:part name="parameters" element="tns:WriteSlicedXmlResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_FaultMessage"
">
    <wsdl:part xmlns:q13="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q13:ArgumentNullException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q14="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q14:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q15="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q15:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_FaultMessage
">
    <wsdl:part
xmlns:q16="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q16:AccessDeniedException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q17="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q17:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q18="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q18:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_FaultMessag
e">
    <wsdl:part xmlns:q19="Microsoft.BusinessData.SharePoint" name="detail"
element="q19:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q20="Microsoft.SharePoint.BusinessData" name="detail"
element="q20:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_HaveRights_InputMessage">
    <wsdl:part name="parameters" element="tns:HaveRights" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_HaveRights_OutputMessage">
    <wsdl:part name="parameters" element="tns:HaveRightsResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q21:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q22="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q22:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMessage">

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        <wsdl:part xmlns:q23="Microsoft.BusinessData.SharePoint" name="detail"
element="q23:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q24="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q24:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q25="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q25:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q26="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q26:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InputMessa
ge">
        <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesForMetadataObjectStruct" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_OutputMess
age">
        <wsdl:part name="parameters"
element="tns:GetAllLocalizedNamesForMetadataObjectStructResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentNu
llExceptionFault_FaultMessage">
        <wsdl:part xmlns:q27="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q27:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentOu
tOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q28="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q28:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_BdcExcepti
onStateFault_FaultMessage">
        <wsdl:part
xmlns:q29="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q29:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_InvalidOpe
rationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q30="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q30:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_MetadataEx
ceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q31="Microsoft.BusinessData.SharePoint" name="detail"
element="q31:MetadataException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_ArgumentEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q32="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q32:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNames" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllLocalizedNamesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q33="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q33:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionFault_
FaultMessage">
    <wsdl:part xmlns:q34="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q34:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:q35="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q35:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionFault_Fa
ultMessage">
    <wsdl:part xmlns:q36="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q36:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFault_Fault
Message">
    <wsdl:part xmlns:q37="Microsoft.BusinessData.SharePoint" name="detail"
element="q37:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q38="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q38:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPropertiesForMetadataObjectStruct" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputMessage"
>
    <wsdl:part name="parameters"
element="tns:GetAllPropertiesForMetadataObjectStructResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InvalidOperati
onExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q39="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q39:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q40="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q40:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q41="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q41:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q42="Microsoft.BusinessData.SharePoint" name="detail"
element="q42:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q43="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q43:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q44="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q44:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAllProperties" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAllProperties_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAllPropertiesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q45="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q45:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q46="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q46:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q47="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q47:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_FaultMessage">

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        <wsdl:part xmlns:q48="Microsoft.BusinessData.SharePoint" name="detail"
element="q48:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q49="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q49:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q50="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q50:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage">
        <wsdl:part name="parameters" element="tns:SaveLocalizedName" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage">
        <wsdl:part name="parameters" element="tns:SaveLocalizedNameResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFault_Fault
Message">
        <wsdl:part xmlns:q51="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q51:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q52="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q52:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultMessage"
>
        <wsdl:part
xmlns:q53="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q53:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_FaultMes
sage">
        <wsdl:part xmlns:q54="Microsoft.BusinessData.SharePoint" name="detail"
element="q54:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultMessage"
>
        <wsdl:part xmlns:q55="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q55:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q56="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q56:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage">
        <wsdl:part name="parameters" element="tns:ClearLocalizedNames" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage">

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        <wsdl:part name="parameters" element="tns:ClearLocalizedNamesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q57="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q57:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q58="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q58:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q59="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q59:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessag
e">
        <wsdl:part
xmlns:q60="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q60:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultM
essage">
        <wsdl:part xmlns:q61="Microsoft.BusinessData.SharePoint" name="detail"
element="q61:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessag
e">
        <wsdl:part xmlns:q62="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q62:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage">
        <wsdl:part name="parameters" element="tns:RemoveLocalizedName" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage">
        <wsdl:part name="parameters" element="tns:RemoveLocalizedNameResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q63="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q63:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q64="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q64:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessag
e">

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        <wsdl:part
xmlns:q65="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q65:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultM
essage">
        <wsdl:part xmlns:q66="Microsoft.BusinessData.SharePoint" name="detail"
element="q66:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessag
e">
        <wsdl:part xmlns:q67="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q67:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q68="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q68:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_InputMessage">
        <wsdl:part name="parameters" element="tns:SaveProperty" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SaveProperty_OutputMessage">
        <wsdl:part name="parameters" element="tns:SavePropertyResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultMessage"
>
        <wsdl:part xmlns:q69="Microsoft.BusinessData.SharePoint" name="detail"
element="q69:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q70="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q70:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q71="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q71:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_InvalidOperationExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q72="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q72:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q73="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q73:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q74="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q74:ArgumentNullException" />

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</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearProperties" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_ClearProperties_OutputMessage">
  <wsdl:part name="parameters" element="tns:ClearPropertiesResponse" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeExceptionFault_Fault
Message">
  <wsdl:part xmlns:q75="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q75:ArgumentOutOfRangeException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_FaultMessa
ge">
  <wsdl:part xmlns:q76="Microsoft.BusinessData.SharePoint" name="detail"
element="q76:MetadataException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_FaultMessag
e">
  <wsdl:part xmlns:q77="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q77:ArgumentNullException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMessage">
  <wsdl:part
xmlns:q78="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q78:BdcExceptionState" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_FaultMe
ssage">
  <wsdl:part xmlns:q79="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q79:InvalidOperationException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q80="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q80:ArgumentException" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveProperty" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_RemoveProperty_OutputMessage">
  <wsdl:part name="parameters" element="tns:RemovePropertyResponse" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_FaultMessag
e">
  <wsdl:part xmlns:q81="Microsoft.BusinessData.SharePoint" name="detail"
element="q81:MetadataException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault_FaultM
essage">
  <wsdl:part xmlns:q82="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q82:ArgumentOutOfRangeException" />
</wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q83="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q83:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q84="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q84:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q85="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q85:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q86="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q86:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAccessControlEntries" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAccessControlEntriesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q87="Microsoft.BusinessData.SharePoint" name="detail"
element="q87:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q88="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q88:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q89="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q89:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q90="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q90:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q91="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q91:ArgumentNullException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q92="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q92:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage">
    <wsdl:part name="parameters" element="tns:SetAccessControlEntries" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetAccessControlEntriesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q93="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q93:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q94="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q94:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q95="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q95:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q96="Microsoft.BusinessData.SharePoint" name="detail"
element="q96:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q97="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q97:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q98="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q98:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreate" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage">
    <wsdl:part name="parameters" element="tns:MetadataObjectCreateResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q99="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q99:ArgumentException" />

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        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q100="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q100:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionFault_FaultMessage">
            <wsdl:part xmlns:q101="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q101:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault_FaultMessage">
            <wsdl:part xmlns:q102="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q102:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeExceptionFault_FaultMessage">
            <wsdl:part xmlns:q103="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q103:ArgumentOutOfRangeException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFault_FaultMessage">
            <wsdl:part xmlns:q104="Microsoft.BusinessData.SharePoint" name="detail"
element="q104:MetadataException" />
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_Update_InputMessage">
            <wsdl:part name="parameters" element="tns:Update" />
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_Update_OutputMessage">
            <wsdl:part name="parameters" element="tns:UpdateResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMessage">
            <wsdl:part xmlns:q105="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q105:ArgumentOutOfRangeException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q106="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q106:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage">
            <wsdl:part xmlns:q107="Microsoft.BusinessData.SharePoint" name="detail"
element="q107:MetadataException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage">
            <wsdl:part xmlns:q108="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q108:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q109="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q109:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q110="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q110:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_InputMessage">
        <wsdl:part name="parameters" element="tns:Delete" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Delete_OutputMessage">
        <wsdl:part name="parameters" element="tns:DeleteResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q111="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q111:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q112="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q112:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q113="Microsoft.BusinessData.SharePoint" name="detail"
element="q113:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q114="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q114:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q115="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q115:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q116="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q116:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage">
        <wsdl:part name="parameters" element="tns:MetadataObjectMergeXml" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage">
        <wsdl:part name="parameters" element="tns:MetadataObjectMergeXmlResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q117="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q117:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionStateFaul
t_FaultMessage">

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        <wsdl:part xmlns:q118="Microsoft.SharePoint.BusinessData" name="detail"
element="q118:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_FaultMes
sage">
        <wsdl:part
xmlns:q119="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q119:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q120="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q120:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q121="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q121:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
        <wsdl:part xmlns:q122="Microsoft.BusinessData.SharePoint" name="detail"
element="q122:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q123="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q123:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage">
        <wsdl:part name="parameters" element="tns:MetadataObjectReadXml" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage">
        <wsdl:part name="parameters" element="tns:MetadataObjectReadXmlResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_FaultMess
age">
        <wsdl:part
xmlns:q124="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q124:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionStateFault_
FaultMessage">
        <wsdl:part xmlns:q125="Microsoft.SharePoint.BusinessData" name="detail"
element="q125:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFault_Fault
Message">
        <wsdl:part xmlns:q126="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q126:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeExceptionFault_
FaultMessage">

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        <wsdl:part xmlns:q127="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q127:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q128="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q128:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFault_Faul
tMessage">
        <wsdl:part xmlns:q129="Microsoft.BusinessData.SharePoint" name="detail"
element="q129:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q130="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q130:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage">
        <wsdl:part name="parameters" element="tns:MetadataObjectWriteXml" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage">
        <wsdl:part name="parameters" element="tns:MetadataObjectWriteXmlResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionStateFaul
t_FaultMessage">
        <wsdl:part xmlns:q131="Microsoft.SharePoint.BusinessData" name="detail"
element="q131:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q132="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q132:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
        <wsdl:part xmlns:q133="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q133:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_FaultMes
sage">
        <wsdl:part
xmlns:q134="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q134:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q135="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q135:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFault_Fau
ltMessage">

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        <wsdl:part xmlns:q136="Microsoft.BusinessData.SharePoint" name="detail"
element="q136:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q137="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q137:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage">
        <wsdl:part name="parameters" element="tns:CopyAclAcrossChildren" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage">
        <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q138="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q138:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_FaultMess
age">
        <wsdl:part
xmlns:q139="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q139:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault
_FaultMessage">
        <wsdl:part xmlns:q140="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q140:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_Faul
tMessage">
        <wsdl:part xmlns:q141="Microsoft.BusinessData.SharePoint" name="detail"
element="q141:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q142="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q142:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFault_Fault
Message">
        <wsdl:part xmlns:q143="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q143:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage">
        <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSetting" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage">
        <wsdl:part name="parameters" element="tns:CopyAclAcrossChildrenForSettingResponse" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q144="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q144:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q145="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q145:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q146="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q146:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q147="Microsoft.BusinessData.SharePoint" name="detail"
element="q147:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q148="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q148:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q149="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q149:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclToSetting" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns:CopyAclToSettingResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q150="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q150:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q151="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q151:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q152="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q152:BdcExceptionState" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q153="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q153:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_FaultMess
age">
    <wsdl:part xmlns:q154="Microsoft.BusinessData.SharePoint" name="detail"
element="q154:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q155="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q155:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSince" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCacheInvalidationRecordsSinceResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedException
Fault_FaultMessage">
    <wsdl:part
xmlns:q156="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q156:AccessDeniedException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionStateFaul
t_FaultMessage">
    <wsdl:part
xmlns:q157="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q157:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperationExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q158="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q158:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExceptionStat
eFault_FaultMessage">
    <wsdl:part xmlns:q159="Microsoft.BusinessData.SharePoint" name="detail"
element="q159:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q160="Microsoft.SharePoint.BusinessData" name="detail"
element="q160:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExceptionFaul
t_FaultMessage">

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        <wsdl:part xmlns:q161="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q161:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullException
Fault_FaultMessage">
        <wsdl:part xmlns:q162="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q162:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfRangeException
ptionFault_FaultMessage">
        <wsdl:part xmlns:q163="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q163:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_InputMessage">
        <wsdl:part name="parameters" element="tns:ImportPackage" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ImportPackage_OutputMessage">
        <wsdl:part name="parameters" element="tns:ImportPackageResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
        <wsdl:part xmlns:q164="Microsoft.SharePoint.BusinessData" name="detail"
element="q164:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q165="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q165:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q166="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q166:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_FaultMessage
">
        <wsdl:part xmlns:q167="Microsoft.BusinessData.SharePoint" name="detail"
element="q167:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q168="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q168:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultMessage"
>
        <wsdl:part xmlns:q169="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q169:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q170="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q170:ArgumentOutOfRangeException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage">
      <wsdl:part name="parameters" element="tns:ImportPackageWithProgress" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage">
      <wsdl:part name="parameters" element="tns:ImportPackageWithProgressResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:q171="Microsoft.SharePoint.BusinessData" name="detail"
element="q171:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q172="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q172:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q173="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q173:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:q174="Microsoft.BusinessData.SharePoint" name="detail"
element="q174:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q175="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q175:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q176="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q176:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q177="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q177:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_InputMessage">
      <wsdl:part name="parameters" element="tns:GetImportProgress" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetImportProgress_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetImportProgressResponse" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_InputMessage">
      <wsdl:part name="parameters" element="tns:ExportPackage" />
    </wsdl:message>

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        <wsdl:message name="BusinessDataCatalogSharedService_ExportPackage_OutputMessage">
            <wsdl:part name="parameters" element="tns:ExportPackageResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q178="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q178:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMess
age">
            <wsdl:part xmlns:q179="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q179:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage
">
            <wsdl:part xmlns:q180="Microsoft.BusinessData.SharePoint" name="detail"
element="q180:MetadataException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMe
ssage">
            <wsdl:part xmlns:q181="Microsoft.SharePoint.BusinessData" name="detail"
element="q181:PackageFormatExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage">
            <wsdl:part xmlns:q182="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q182:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage"
>
            <wsdl:part xmlns:q183="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q183:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
            <wsdl:part xmlns:q184="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q184:ArgumentOutOfRangeException" />
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_InputMessage">
            <wsdl:part name="parameters" element="tns:GetModelById" />
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetModelById_OutputMessage">
            <wsdl:part name="parameters" element="tns:GetModelByIdResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_FaultMessa
ge">
            <wsdl:part xmlns:q185="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q185:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q186="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q186:BdcExceptionState" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q187="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q187:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultMessage"
>
        <wsdl:part xmlns:q188="Microsoft.BusinessData.SharePoint" name="detail"
element="q188:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q189="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q189:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q190="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q190:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetModelsByName" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByName_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetModelsByNameResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeExceptionFault_Fault
Message">
        <wsdl:part xmlns:q191="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q191:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q192="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q192:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q193="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q193:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_FaultMessa
ge">
        <wsdl:part xmlns:q194="Microsoft.BusinessData.SharePoint" name="detail"
element="q194:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q195="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q195:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_FaultMessag
e">

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        <wsdl:part xmlns:q196="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q196:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetModelByName" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelByName_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetModelByNameResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q197="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q197:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q198="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q198:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q199="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q199:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_MetadadataExceptionStateFault_FaultMessag
e">
        <wsdl:part xmlns:q200="Microsoft.BusinessData.SharePoint" name="detail"
element="q200:MetadadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q201="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q201:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_FaultMessage
">
        <wsdl:part xmlns:q202="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q202:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage">
        <wsdl:part name="parameters" element="tns:GetModelsByEntityId" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetModelsByEntityIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q203="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q203:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_FaultMessag
e">

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        <wsdl:part
xmlns:q204="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q204:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q205="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q205:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q206="Microsoft.BusinessData.SharePoint" name="detail"
element="q206:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q207="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q207:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q208="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q208:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_InputMessage">
        <wsdl:part name="parameters" element="tns:AddEntityToModel" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage">
        <wsdl:part name="parameters" element="tns:AddEntityToModelResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q209="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q209:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q210="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q210:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q211="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q211:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q212="Microsoft.BusinessData.SharePoint" name="detail"
element="q212:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q213="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q213:ArgumentException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q214="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q214:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage">
        <wsdl:part name="parameters" element="tns:RemoveEntityFromModel" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage">
        <wsdl:part name="parameters" element="tns:RemoveEntityFromModelResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q215="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q215:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q216="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q216:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q217="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q217:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q218="Microsoft.BusinessData.SharePoint" name="detail"
element="q218:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q219="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q219:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q220="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q220:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage">
        <wsdl:part name="parameters" element="tns>DeleteNoCascade" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage">
        <wsdl:part name="parameters" element="tns>DeleteNoCascadeResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q221="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q221:ArgumentOutOfRangeException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q222="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q222:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q223="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q223:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q224="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q224:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q225="Microsoft.BusinessData.SharePoint" name="detail"
element="q225:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q226="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q226:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_InputMessage">
        <wsdl:part name="parameters" element="tns:ModelReadXml" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_ModelReadXml_OutputMessage">
        <wsdl:part name="parameters" element="tns:ModelReadXmlResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q227="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q227:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q228="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q228:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q229="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q229:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q230="Microsoft.BusinessData.SharePoint" name="detail"
element="q230:MetadataException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_FaultMes
sage">
    <wsdl:part xmlns:q231="Microsoft.SharePoint.BusinessData" name="detail"
element="q231:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q232="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q232:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q233="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q233:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InputMessa
ge">
    <wsdl:part name="parameters" element="tns:GetLobSystemProxyAssemblyBytesByLobSystemId" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_OutputMess
age">
    <wsdl:part name="parameters"
element="tns:GetLobSystemProxyAssemblyBytesByLobSystemIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_BdcExcepti
onStateFault_FaultMessage">
    <wsdl:part
xmlns:q234="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q234:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentOu
tOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q235="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q235:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentNu
llExceptionFault_FaultMessage">
    <wsdl:part xmlns:q236="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q236:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_InvalidOpe
rationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q237="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q237:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_MetadataEx
ceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q238="Microsoft.BusinessData.SharePoint" name="detail"
element="q238:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentEx
ceptionFault_FaultMessage">

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        <wsdl:part xmlns:q239="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q239:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemAllAssembliesBytes" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemAllAssembliesBytesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q240="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q240:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q241="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q241:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q242="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q242:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q243="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q243:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q244="Microsoft.BusinessData.SharePoint" name="detail"
element="q244:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q245="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q245:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystem" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemDataByLobSystemResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q246="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q246:InvalidOperationException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q247="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q247:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q248="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q248:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q249="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q249:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q250="Microsoft.BusinessData.SharePoint" name="detail"
element="q250:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q251="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q251:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage">
    <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemId" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetLobSystemDataByLobSystemIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q252="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q252:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q253="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q253:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q254="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q254:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataExceptionStateFault_FaultMessage">

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        <wsdl:part xmlns:q255="Microsoft.BusinessData.SharePoint" name="detail"
element="q255:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q256="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q256:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExceptionFau
lt_FaultMessage">
        <wsdl:part xmlns:q257="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q257:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nputMessage">
        <wsdl:part name="parameters"
element="tns:GetLobSystemsReferencedByEntitiesAssociatedWithModel" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_O
utputMessage">
        <wsdl:part name="parameters"
element="tns:GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_B
dcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q258="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q258:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q259="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q259:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q260="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q260:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_I
nvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q261="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q261:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_M
etadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q262="Microsoft.BusinessData.SharePoint" name="detail"
element="q262:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWithModel_A
rgumentExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q263="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q263:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemByName" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemByNameResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q264="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q264:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionFault_Fa
ultMessage">
        <wsdl:part xmlns:q265="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q265:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_FaultMessage
">
        <wsdl:part
xmlns:q266="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q266:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q267="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q267:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_FaultMe
ssage">
        <wsdl:part xmlns:q268="Microsoft.BusinessData.SharePoint" name="detail"
element="q268:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_FaultMessage
">
        <wsdl:part xmlns:q269="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q269:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemsLikeName" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemsLikeNameResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFault_Fault
Message">
        <wsdl:part xmlns:q270="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q270:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeExceptionFault
_FaultMessage">

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        <wsdl:part xmlns:q271="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q271:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_FaultMess
age">
        <wsdl:part
xmlns:q272="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q272:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q273="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q273:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFault_Faul
tMessage">
        <wsdl:part xmlns:q274="Microsoft.BusinessData.SharePoint" name="detail"
element="q274:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q275="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q275:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q276="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q276:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q277="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q277:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q278="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q278:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_FaultMess
age">
        <wsdl:part xmlns:q279="Microsoft.BusinessData.SharePoint" name="detail"
element="q279:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q280="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q280:ArgumentException" />

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        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_FaultMessa
ge">
            <wsdl:part xmlns:q281="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q281:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_InputMessage">
            <wsdl:part name="parameters" element="tns:GetEntityCount" />
        </wsdl:message>
        <wsdl:message name="BusinessDataCatalogSharedService_GetEntityCount_OutputMessage">
            <wsdl:part name="parameters" element="tns:GetEntityCountResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q282="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q282:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault_FaultM
essage">
            <wsdl:part xmlns:q283="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q283:ArgumentOutOfRangeException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_FaultMes
sage">
            <wsdl:part xmlns:q284="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q284:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_FaultMessag
e">
            <wsdl:part xmlns:q285="Microsoft.BusinessData.SharePoint" name="detail"
element="q285:MetadataException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMessage">
            <wsdl:part xmlns:q286="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q286:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_FaultMessage
">
            <wsdl:part xmlns:q287="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q287:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessage">
            <wsdl:part name="parameters" element="tns:GetSystemUtilityTypeNameForLobSystem" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMessage">
            <wsdl:part name="parameters" element="tns:GetSystemUtilityTypeNameForLobSystemResponse"
/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOperationE
xceptionFault_FaultMessage">

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        <wsdl:part xmlns:q288="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q288:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentException
Fault_FaultMessage">
        <wsdl:part xmlns:q289="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q289:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOutOfRang
eExceptionFault_FaultMessage">
        <wsdl:part xmlns:q290="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q290:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExceptionState
Fault_FaultMessage">
        <wsdl:part
xmlns:q291="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q291:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataException
StateFault_FaultMessage">
        <wsdl:part xmlns:q292="Microsoft.BusinessData.SharePoint" name="detail"
element="q292:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNullExcep
tionFault_FaultMessage">
        <wsdl:part xmlns:q293="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q293:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage">
        <wsdl:part name="parameters" element="tns:GenerateProxyAssemblyForLobSystem" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage">
        <wsdl:part name="parameters" element="tns:GenerateProxyAssemblyForLobSystemResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullExceptio
nFault_FaultMessage">
        <wsdl:part xmlns:q294="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q294:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
        <wsdl:part xmlns:q295="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q295:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExceptionFau
lt_FaultMessage">
        <wsdl:part xmlns:q296="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q296:ArgumentException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q297="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q297:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q298="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q298:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q299="Microsoft.BusinessData.SharePoint" name="detail"
element="q299:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:DeleteProxyAssemblyForLobSystem" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeleteProxyAssemblyForLobSystemResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q300="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q300:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q301="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q301:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q302="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q302:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q303="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q303:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q304="Microsoft.BusinessData.SharePoint" name="detail"
element="q304:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q305="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q305:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystem" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemInstancesForLobSystemResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q306="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q306:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q307="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q307:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q308="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q308:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q309="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q309:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q310="Microsoft.BusinessData.SharePoint" name="detail"
element="q310:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q311="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q311:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemInstanceById" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLobSystemInstanceByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q312="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q312:InvalidOperationException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q313="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q313:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q314="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q314:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q315="Microsoft.BusinessData.SharePoint" name="detail"
element="q315:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q316="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q316:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q317="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q317:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage">
        <wsdl:part name="parameters" element="tns:GetDataClassesForSystem" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetDataClassesForSystemResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q318="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q318:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q319="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q319:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q320="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q320:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q321="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q321:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExceptionFault_
_FaultMessage">
        <wsdl:part xmlns:q322="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q322:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateFault_Fa
ultMessage">
        <wsdl:part xmlns:q323="Microsoft.BusinessData.SharePoint" name="detail"
element="q323:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetDataClassById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetDataClassById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetDataClassByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_FaultMess
age">
        <wsdl:part xmlns:q324="Microsoft.BusinessData.SharePoint" name="detail"
element="q324:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q325="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q325:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q326="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q326:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q327="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q327:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q328="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q328:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q329="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q329:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage">
        <wsdl:part name="parameters" element="tns:GetEntitiesReferencedByModelId" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesReferencedByModelIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q330="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q330:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q331="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q331:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q332="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q332:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q333="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q333:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q334="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q334:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q335="Microsoft.BusinessData.SharePoint" name="detail"
element="q335:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesLikeNameAndNamespace" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesLikeNameAndNamespaceResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q336="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q336:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q337="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q337:InvalidOperationException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExceptionState
Fault_FaultMessage">
    <wsdl:part xmlns:q338="Microsoft.BusinessData.SharePoint" name="detail"
element="q338:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q339="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q339:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q340="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q340:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault_F
ault_FaultMessage">
    <wsdl:part xmlns:q341="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q341:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespace" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_F
aultMessage">
    <wsdl:part
xmlns:q342="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q342:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q343="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q343:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q344="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q344:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q345="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q345:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFa
ult_FaultMessage">
    <wsdl:part xmlns:q346="Microsoft.BusinessData.SharePoint" name="detail"
element="q346:MetadataException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q347="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q347:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntityWithNameAndNamespaceAndVersion" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetEntityWithNameAndNamespaceAndVersionResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q348="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q348:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q349="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q349:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q350="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q350:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q351="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q351:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q352="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q352:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q353="Microsoft.BusinessData.SharePoint" name="detail"
element="q353:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystem" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForSystemResponse" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q354="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q354:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q355="Microsoft.BusinessData.SharePoint" name="detail"
element="q355:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q356="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q356:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q357="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q357:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q358="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q358:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q359="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q359:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRole" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntitiesForAssociationAndRoleResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q360="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q360:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q361="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q361:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q362="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q362:ArgumentOutOfRangeException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionStateFault_FaultMessage">
      <wsdl:part
xmlns:q363="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q363:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:q364="Microsoft.BusinessData.SharePoint" name="detail"
element="q364:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q365="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q365:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage">
      <wsdl:part name="parameters" element="tns:SetDefaultActionForEntity" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage">
      <wsdl:part name="parameters" element="tns:SetDefaultActionForEntityResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExceptionFault_FaultMessage">
      <wsdl:part xmlns:q366="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q366:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullExceptionFault_FaultMessage">
      <wsdl:part xmlns:q367="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q367:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage">
      <wsdl:part xmlns:q368="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q368:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFault_FaultMessage">
      <wsdl:part xmlns:q369="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q369:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStateFault_FaultMessage">
      <wsdl:part xmlns:q370="Microsoft.BusinessData.SharePoint" name="detail"
element="q370:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFault_FaultMessage">

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        <wsdl:part
xmlns:q371="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q371:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InputM
essage">
        <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRole" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Output
Message">
        <wsdl:part name="parameters"
element="tns:GetEntityNameAndNamespacesForAssociationAndRoleResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_BdcExc
eptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q372="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q372:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q373="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q373:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Invali
dOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q374="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q374:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Metada
taExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q375="Microsoft.BusinessData.SharePoint" name="detail"
element="q375:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntExceptionFault_FaultMessage">
        <wsdl:part xmlns:q376="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q376:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_Argume
ntNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q377="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q377:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetEntityById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetEntityById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetEntityByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMess
age">

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        <wsdl:part xmlns:q378="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q378:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q379="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q379:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage"
>
        <wsdl:part xmlns:q380="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q380:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q381="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q381:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage
">
        <wsdl:part xmlns:q382="Microsoft.BusinessData.SharePoint" name="detail"
element="q382:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q383="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q383:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_InputMessage">
        <wsdl:part name="parameters" element="tns:EntityCreate" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_EntityCreate_OutputMessage">
        <wsdl:part name="parameters" element="tns:EntityCreateResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q384="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q384:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultMessage"
>
        <wsdl:part xmlns:q385="Microsoft.BusinessData.SharePoint" name="detail"
element="q385:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_FaultMes
sage">
        <wsdl:part xmlns:q386="Microsoft.SharePoint.BusinessData" name="detail"
element="q386:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q387="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q387:ArgumentException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q388="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q388:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_FaultMes
sage">
    <wsdl:part xmlns:q389="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q389:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q390="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q390:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Activate_InputMessage">
    <wsdl:part name="parameters" element="tns:Activate" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_Activate_OutputMessage">
    <wsdl:part name="parameters" element="tns:ActivateResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q391="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q391:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q392="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q392:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_FaultMessage
">
    <wsdl:part xmlns:q393="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q393:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q394="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q394:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q395="Microsoft.BusinessData.SharePoint" name="detail"
element="q395:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q396="Microsoft.SharePoint.BusinessData" name="detail"
element="q396:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q397="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q397:ArgumentException" />
    </wsdl:message>

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<wsdl:message name="BusinessDataCatalogSharedService_Deactivate_InputMessage">
  <wsdl:part name="parameters" element="tns:Deactivate" />
</wsdl:message>
<wsdl:message name="BusinessDataCatalogSharedService_Deactivate_OutputMessage">
  <wsdl:part name="parameters" element="tns:DeactivateResponse" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_FaultMessage">
  <wsdl:part xmlns:q398="Microsoft.SharePoint.BusinessData" name="detail"
element="q398:PackageFormatExceptionState" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage">
  <wsdl:part
xmlns:q399="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q399:BdcExceptionState" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMessage">
  <wsdl:part xmlns:q400="Microsoft.BusinessData.SharePoint" name="detail"
element="q400:MetadataException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage">
  <wsdl:part xmlns:q401="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q401:ArgumentException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMessage">
  <wsdl:part xmlns:q402="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q402:ArgumentNullException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessage">
  <wsdl:part xmlns:q403="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q403:ArgumentOutOfRangeException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_FaultMessage">
  <wsdl:part xmlns:q404="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q404:InvalidOperationException" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage">
  <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidate" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage">
  <wsdl:part name="parameters" element="tns:BulkSwitchActiveOrValidateResponse" />
</wsdl:message>
<wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExceptionFault_FaultMessage">
  <wsdl:part xmlns:q405="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q405:InvalidOperationException" />
</wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q406="Microsoft.BusinessData.SharePoint" name="detail"
element="q406:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q407="Microsoft.SharePoint.BusinessData" name="detail"
element="q407:PackageFormatException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q408="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q408:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q409="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q409:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q410="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q410:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q411="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q411:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetActionById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q412="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q412:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q413="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q413:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q414="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q414:InvalidOperationException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_FaultMessage
">
    <wsdl:part xmlns:q415="Microsoft.BusinessData.SharePoint" name="detail"
element="q415:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q416="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q416:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q417="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q417:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:GetActionsForEntity" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetActionsForEntityResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q418="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q418:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q419="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q419:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q420="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q420:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q421="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q421:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q422="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q422:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q423="Microsoft.BusinessData.SharePoint" name="detail"
element="q423:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById_InputMessage">

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        <wsdl:part name="parameters" element="tns:GetActionParameterById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetActionParameterByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q424="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q424:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault_Fau
ltMessage">
        <wsdl:part xmlns:q425="Microsoft.BusinessData.SharePoint" name="detail"
element="q425:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q426="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q426:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault
_FaultMessage">
        <wsdl:part xmlns:q427="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q427:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMes
sage">
        <wsdl:part
xmlns:q428="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q428:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q429="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q429:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage">
        <wsdl:part name="parameters" element="tns:GetActionParametersForAction" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetActionParametersForActionResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExceptionFaul
t_FaultMessage">
        <wsdl:part xmlns:q430="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q430:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionFault_Fa
ultMessage">
        <wsdl:part xmlns:q431="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q431:ArgumentException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q432="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q432:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q433="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q433:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q434="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q434:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q435="Microsoft.BusinessData.SharePoint" name="detail"
element="q435:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetIdentifierById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetIdentifierByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q436="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q436:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q437="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q437:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q438="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q438:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q439="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q439:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q440="Microsoft.BusinessData.SharePoint" name="detail"
element="q440:MetadataException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage"
>
    <wsdl:part xmlns:q441="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q441:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage">
    <wsdl:part name="parameters" element="tns:GetIdentifiersForEntity" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetIdentifiersForEntityResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q442="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q442:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault_Fa
ultMessage">
    <wsdl:part xmlns:q443="Microsoft.BusinessData.SharePoint" name="detail"
element="q443:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q444="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q444:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q445="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q445:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q446="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q446:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault
_FaultMessage">
    <wsdl:part xmlns:q447="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q447:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetMethodByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_FaultMessage
">

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        <wsdl:part xmlns:q448="Microsoft.BusinessData.SharePoint" name="detail"
element="q448:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q449="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q449:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultMessage"
>
        <wsdl:part xmlns:q450="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q450:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q451="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q451:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q452="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q452:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q453="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q453:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodsForDataClass" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodsForDataClassResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q454="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q454:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_FaultMes
sage">
        <wsdl:part
xmlns:q455="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q455:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExceptionFault
_FaultMessage">
        <wsdl:part xmlns:q456="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q456:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q457="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q457:InvalidOperationException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q458="Microsoft.BusinessData.SharePoint" name="detail"
element="q458:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q459="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q459:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage">
        <wsdl:part name="parameters" element="tns:IsMethodInstantiated" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage">
        <wsdl:part name="parameters" element="tns:IsMethodInstantiatedResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q460="Microsoft.BusinessData.SharePoint" name="detail"
element="q460:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q461="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q461:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q462="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q462:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q463="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q463:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q464="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q464:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q465="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q465:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetFilterDescriptorById" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage">

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        <wsdl:part name="parameters" element="tns:GetFilterDescriptorByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_FaultMe
ssage">
        <wsdl:part xmlns:q466="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q466:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateFault_Fa
ultMessage">
        <wsdl:part xmlns:q467="Microsoft.BusinessData.SharePoint" name="detail"
element="q467:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFault_Fau
ltMessage">
        <wsdl:part xmlns:q468="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q468:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage">
        <wsdl:part xmlns:q469="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q469:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_FaultMe
ssage">
        <wsdl:part
xmlns:q470="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q470:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExceptionFault
_FaultMessage">
        <wsdl:part xmlns:q471="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q471:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage">
        <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethod" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetFilterDescriptorsForMethodResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q472="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q472:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExceptionFau
lt_FaultMessage">
        <wsdl:part xmlns:q473="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q473:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage">

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        <wsdl:part xmlns:q474="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q474:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionStateFault_F
aultMessage">
        <wsdl:part
xmlns:q475="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q475:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationExceptio
nFault_FaultMessage">
        <wsdl:part xmlns:q476="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q476:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataExceptionStateFa
ult_FaultMessage">
        <wsdl:part xmlns:q477="Microsoft.BusinessData.SharePoint" name="detail"
element="q477:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodInstanceById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodInstanceByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_FaultMess
age">
        <wsdl:part
xmlns:q478="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q478:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationExceptionFault_F
aultMessage">
        <wsdl:part xmlns:q479="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q479:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q480="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q480:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFault_Fault
Message">
        <wsdl:part xmlns:q481="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q481:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q482="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q482:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFault_Faul
tMessage">

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        <wsdl:part xmlns:q483="Microsoft.BusinessData.SharePoint" name="detail"
element="q483:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodInstancesForDataClass" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodInstancesForDataClassResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperationExcepti
onFault_FaultMessage">
        <wsdl:part xmlns:q484="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q484:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptionStateF
ault_FaultMessage">
        <wsdl:part xmlns:q485="Microsoft.BusinessData.SharePoint" name="detail"
element="q485:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExceptionFa
ult_FaultMessage">
        <wsdl:part xmlns:q486="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q486:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage">
        <wsdl:part xmlns:q487="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q487:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStateFault_
FaultMessage">
        <wsdl:part
xmlns:q488="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q488:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptionFault_
FaultMessage">
        <wsdl:part xmlns:q489="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q489:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodInstancesForMethod" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetMethodInstancesForMethodResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExceptionF
ault_FaultMessage">
        <wsdl:part xmlns:q490="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q490:InvalidOperationException" />

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    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q491="Microsoft.BusinessData.SharePoint" name="detail"
element="q491:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q492="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q492:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q493="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q493:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q494="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q494:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q495="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q495:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage">
    <wsdl:part name="parameters" element="tns:CheckPathInMethodInstances" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage">
    <wsdl:part name="parameters" element="tns:CheckPathInMethodInstancesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q496="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q496:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q497="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q497:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q498="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q498:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionStateFault_FaultMessage">

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        <wsdl:part xmlns:q499="Microsoft.BusinessData.SharePoint" name="detail"
element="q499:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetParameterById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParameterById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetParameterByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q500="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q500:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_FaultMessa
ge">
        <wsdl:part xmlns:q501="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q501:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFault_Faul
tMessage">
        <wsdl:part xmlns:q502="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q502:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q503="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q503:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault_FaultM
essage">
        <wsdl:part xmlns:q504="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q504:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_FaultMess
age">
        <wsdl:part xmlns:q505="Microsoft.BusinessData.SharePoint" name="detail"
element="q505:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage">
        <wsdl:part name="parameters" element="tns:GetParametersForMethod" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetParametersForMethodResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q506="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q506:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_FaultMes
sage">

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        <wsdl:part
xmlns:q507="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q507:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q508="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q508:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q509="Microsoft.BusinessData.SharePoint" name="detail"
element="q509:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q510="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q510:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q511="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q511:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMessage">
        <wsdl:part name="parameters" element="tns:IsParameterReferencedByMethodInstance" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMessage">
        <wsdl:part name="parameters" element="tns:IsParameterReferencedByMethodInstanceResponse"
/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q512="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q512:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q513="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q513:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q514="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q514:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q515="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q515:ArgumentOutOfRangeException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentNullExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q516="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q516:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q517="Microsoft.BusinessData.SharePoint" name="detail"
element="q517:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameter" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeReflectorTypeNameForParameterResponse"
/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentException
Fault_FaultMessage">
    <wsdl:part xmlns:q518="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q518:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataExceptio
nStateFault_FaultMessage">
    <wsdl:part xmlns:q519="Microsoft.BusinessData.SharePoint" name="detail"
element="q519:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExcep
tionFault_FaultMessage">
    <wsdl:part xmlns:q520="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q520:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRang
eExceptionFault_FaultMessage">
    <wsdl:part xmlns:q521="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q521:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionState
Fault_FaultMessage">
    <wsdl:part
xmlns:q522="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q522:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOperationE
xceptionFault_FaultMessage">
    <wsdl:part xmlns:q523="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q523:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescripto
r_InputMessage">

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        <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage">
        <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q524="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q524:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q525="Microsoft.BusinessData.SharePoint" name="detail"
element="q525:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q526="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q526:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q527="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q527:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q528="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q528:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q529="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q529:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMessage">
        <wsdl:part name="parameters" element="tns:GetFieldTypeDescriptorsByMethodInstance" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputMessage">
    <wsdl:part name="parameters"
element="tns:GetFieldTypeDescriptorsByMethodInstanceResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q530="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q530:InvalidOperationException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q531="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q531:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q532="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q532:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q533="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q533:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q534="Microsoft.BusinessData.SharePoint" name="detail"
element="q534:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q535="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q535:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeDescriptorByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q536="Microsoft.BusinessData.SharePoint" name="detail"
element="q536:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q537="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q537:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q538="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q538:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q539="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q539:ArgumentOutOfRangeException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q540="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q540:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_FaultMess
age">
    <wsdl:part
xmlns:q541="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q541:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage">
    <wsdl:part name="parameters" element="tns:GetRootTypeDescriptorForParameter" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetRootTypeDescriptorForParameterResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q542="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q542:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExceptionSta
teFault_FaultMessage">
    <wsdl:part xmlns:q543="Microsoft.BusinessData.SharePoint" name="detail"
element="q543:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExceptionFau
lt_FaultMessage">
    <wsdl:part xmlns:q544="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q544:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
    <wsdl:part xmlns:q545="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q545:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionStateFau
lt_FaultMessage">
    <wsdl:part
xmlns:q546="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q546:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperationExce
ptionFault_FaultMessage">
    <wsdl:part xmlns:q547="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q547:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InputMess
age">

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        <wsdl:part name="parameters" element="tns:GetTypeDescriptorsByNameAndLevelForParameter"
/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_OutputMes
sage">
        <wsdl:part name="parameters"
element="tns:GetTypeDescriptorsByNameAndLevelForParameterResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_BdcExcept
ionStateFault_FaultMessage">
        <wsdl:part
xmlns:q548="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q548:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentN
ullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q549="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q549:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentO
utOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q550="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q550:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentE
xceptionFault_FaultMessage">
        <wsdl:part xmlns:q551="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q551:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InvalidOp
erationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q552="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q552:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadataE
xceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q553="Microsoft.BusinessData.SharePoint" name="detail"
element="q553:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage"
>
        <wsdl:part name="parameters" element="tns:GetChildTypeDescriptorsForTypeDescriptor" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage
">
        <wsdl:part name="parameters"
element="tns:GetChildTypeDescriptorsForTypeDescriptorResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage">

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        <wsdl:part
xmlns:q554="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q554:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage">
        <wsdl:part xmlns:q555="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q555:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage">
        <wsdl:part xmlns:q556="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q556:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage">
        <wsdl:part xmlns:q557="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q557:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q558="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q558:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage">
        <wsdl:part xmlns:q559="Microsoft.BusinessData.SharePoint" name="detail"
element="q559:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage">
        <wsdl:part name="parameters" element="tns:GetTypeDescriptorsForFilterDescriptor" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetTypeDescriptorsForFilterDescriptorResponse"
/>
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptio
nStateFault_FaultMessage">
        <wsdl:part xmlns:q560="Microsoft.BusinessData.SharePoint" name="detail"
element="q560:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptio
nFault_FaultMessage">
        <wsdl:part xmlns:q561="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q561:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentNullExce
ptionFault_FaultMessage">
        <wsdl:part xmlns:q562="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q562:ArgumentNullException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q563="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q563:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q564="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q564:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q565="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q565:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDefaultValuesForTypeDescriptor" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDefaultValuesForTypeDescriptorResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q566="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q566:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q567="Microsoft.BusinessData.SharePoint" name="detail"
element="q567:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q568="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q568:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
    <wsdl:part xmlns:q569="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q569:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q570="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q570:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q571="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q571:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage">
        <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptor" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage">
        <wsdl:part name="parameters" element="tns:SetDefaultValuesForTypeDescriptorResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q572="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q572:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperationExce
ptionFault_FaultMessage">
        <wsdl:part xmlns:q573="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q573:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOfRangeEx
ceptionFault_FaultMessage">
        <wsdl:part xmlns:q574="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q574:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExceptionSta
teFault_FaultMessage">
        <wsdl:part xmlns:q575="Microsoft.BusinessData.SharePoint" name="detail"
element="q575:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExceptionFau
lt_FaultMessage">
        <wsdl:part xmlns:q576="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q576:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullExceptio
nFault_FaultMessage">
        <wsdl:part xmlns:q577="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q577:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessage">
        <wsdl:part name="parameters" element="tns>DeleteDefaultValueForTypeDescriptor" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessage">
        <wsdl:part name="parameters" element="tns>DeleteDefaultValueForTypeDescriptorResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExceptionS
tateFault_FaultMessage">
        <wsdl:part xmlns:q578="Microsoft.BusinessData.SharePoint" name="detail"
element="q578:MetadataException" />

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        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
            <wsdl:part xmlns:q579="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q579:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">
            <wsdl:part xmlns:q580="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q580:ArgumentOutOfRangeException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
            <wsdl:part xmlns:q581="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q581:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
            <wsdl:part xmlns:q582="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q582:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q583="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q583:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage">
            <wsdl:part name="parameters" element="tns:GetLevelForTypeDescriptor" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage">
            <wsdl:part name="parameters" element="tns:GetLevelForTypeDescriptorResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage">
            <wsdl:part
xmlns:q584="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q584:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_FaultMessage">
            <wsdl:part xmlns:q585="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q585:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage">
            <wsdl:part xmlns:q586="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q586:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q587="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q587:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q588="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q588:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q589="Microsoft.BusinessData.SharePoint" name="detail"
element="q589:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage">
        <wsdl:part name="parameters" element="tns:TypeDescriptorCreate" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage">
        <wsdl:part name="parameters" element="tns:TypeDescriptorCreateResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q590="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q590:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q591="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q591:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q592="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q592:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q593="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q593:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q594="Microsoft.BusinessData.SharePoint" name="detail"
element="q594:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q595="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q595:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage">
        <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXml" />
    </wsdl:message>

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    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage">
      <wsdl:part name="parameters" element="tns:TypeDescriptorMergeXmlResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationExceptionFault_
FaultMessage">
      <wsdl:part xmlns:q596="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q596:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFault_Fau
ltMessage">
      <wsdl:part xmlns:q597="Microsoft.BusinessData.SharePoint" name="detail"
element="q597:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionStateFaul
t_FaultMessage">
      <wsdl:part xmlns:q598="Microsoft.SharePoint.BusinessData" name="detail"
element="q598:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_FaultMes
sage">
      <wsdl:part xmlns:q599="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q599:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFault_Faul
tMessage">
      <wsdl:part xmlns:q600="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q600:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionFaul
t_FaultMessage">
      <wsdl:part xmlns:q601="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q601:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_FaultMes
sage">
      <wsdl:part
xmlns:q602="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q602:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage">
      <wsdl:part name="parameters" element="tns:TypeDescriptorReadXml" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage">
      <wsdl:part name="parameters" element="tns:TypeDescriptorReadXmlResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionStateFault_
FaultMessage">
      <wsdl:part xmlns:q603="Microsoft.SharePoint.BusinessData" name="detail"
element="q603:PackageFormatExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationExceptionFault_F
aultMessage">

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        <wsdl:part xmlns:q604="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q604:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFault_Fault
tMessage">
        <wsdl:part xmlns:q605="Microsoft.BusinessData.SharePoint" name="detail"
element="q605:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_FaultMess
age">
        <wsdl:part
xmlns:q606="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q606:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_FaultMess
age">
        <wsdl:part xmlns:q607="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q607:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFault_Fault
Message">
        <wsdl:part xmlns:q608="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q608:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionFault
_FaultMessage">
        <wsdl:part xmlns:q609="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q609:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationById" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationById_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_FaultMe
ssage">
        <wsdl:part xmlns:q610="Microsoft.BusinessData.SharePoint" name="detail"
element="q610:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_FaultMessage
">
        <wsdl:part
xmlns:q611="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q611:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionFault_Fa
ultMessage">
        <wsdl:part xmlns:q612="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q612:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFault_Fault
tMessage">

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        <wsdl:part xmlns:q613="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q613:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_FaultMessage"
">
        <wsdl:part xmlns:q614="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q614:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_FaultMes
sage">
        <wsdl:part xmlns:q615="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q615:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRole" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationsForEntityAndRoleResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExceptionF
ault_FaultMessage">
        <wsdl:part xmlns:q616="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q616:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExceptionFault
_FaultMessage">
        <wsdl:part xmlns:q617="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q617:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExceptionState
Fault_FaultMessage">
        <wsdl:part xmlns:q618="Microsoft.BusinessData.SharePoint" name="detail"
element="q618:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage">
        <wsdl:part xmlns:q619="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q619:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperationExceptionExcept
ionFault_FaultMessage">
        <wsdl:part xmlns:q620="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q620:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionStateFault
_FaultMessage">
        <wsdl:part
xmlns:q621="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q621:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage">

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        <wsdl:part name="parameters" element="tns:GetAssociationsForDataClass" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationsForDataClassResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q622="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q622:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q623="Microsoft.BusinessData.SharePoint" name="detail"
element="q623:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q624="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q624:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q625="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q625:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q626="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q626:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q627="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q627:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationsForMethod" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationsForMethodResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q628="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q628:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q629="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q629:ArgumentOutOfRangeException" />

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        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault_FaultM
essage">
            <wsdl:part
xmlns:q630="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q630:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExceptionFau
lt_FaultMessage">
            <wsdl:part xmlns:q631="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q631:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionStateFault_F
aultMessage">
            <wsdl:part xmlns:q632="Microsoft.BusinessData.SharePoint" name="detail"
element="q632:MetadataException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault_FaultM
essage">
            <wsdl:part xmlns:q633="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q633:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage">
            <wsdl:part name="parameters" element="tns:GetAssociationMembersInRole" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage">
            <wsdl:part name="parameters" element="tns:GetAssociationMembersInRoleResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFault_Fau
ltMessage">
            <wsdl:part
xmlns:q634="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q634:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExceptionF
ault_FaultMessage">
            <wsdl:part xmlns:q635="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q635:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFault_Fau
ltMessage">
            <wsdl:part xmlns:q636="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q636:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExceptionFault
_FaultMessage">
            <wsdl:part xmlns:q637="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q637:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeException
Fault_FaultMessage">

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        <wsdl:part xmlns:q638="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q638:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q639="Microsoft.BusinessData.SharePoint" name="detail"
element="q639:MetadataException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage">
        <wsdl:part name="parameters" element="tns:GetThrottlingRules" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetThrottlingRulesResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q640="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q640:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q641="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q641:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q642="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q642:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_FaultMessage">
        <wsdl:part
xmlns:q643="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q643:AccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage">
        <wsdl:part name="parameters" element="tns:AddThrottlingRule" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage">
        <wsdl:part name="parameters" element="tns:AddThrottlingRuleResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_BdcExceptionStateFault_FaultMessage">
        <wsdl:part
xmlns:q644="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q644:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentExceptionFault_FaultMessage">
        <wsdl:part xmlns:q645="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q645:ArgumentException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentNullExceptionFault_FaultMess
age">
    <wsdl:part xmlns:q646="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q646:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddThrottlingRule_AccessDeniedExceptionFault_FaultMess
age">
    <wsdl:part
xmlns:q647="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q647:AccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveThrottlingRule" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveThrottlingRuleResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentNullExceptionFault_FaultM
essage">
    <wsdl:part xmlns:q648="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q648:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFault_FaultM
essage">
    <wsdl:part
xmlns:q649="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q649:AccessDeniedException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_FaultMessa
ge">
    <wsdl:part
xmlns:q650="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q650:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentExceptionFault_FaultMessa
ge">
    <wsdl:part xmlns:q651="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q651:ArgumentException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupById" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAssociationGroupByIdResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_FaultMe
ssage">
    <wsdl:part
xmlns:q652="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q652:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_FaultMe
ssage">

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        <wsdl:part xmlns:q653="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q653:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q654="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q654:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q655="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q655:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q656="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q656:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q657="Microsoft.BusinessData.SharePoint" name="detail"
element="q657:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntity" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetAssociationGroupsForEntityResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataExceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q658="Microsoft.BusinessData.SharePoint" name="detail"
element="q658:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExceptionFault_FaultMessage">
        <wsdl:part xmlns:q659="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q659:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q660="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q660:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q661="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q661:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentExceptionFault_FaultMessage">

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        <wsdl:part xmlns:q662="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q662:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionStateFault_F
aultMessage">
        <wsdl:part
xmlns:q663="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q663:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InputMessa
ge">
        <wsdl:part name="parameters" element="tns:GetAssociationReferencesForAssociationGroup" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_OutputMess
age">
        <wsdl:part name="parameters"
element="tns:GetAssociationReferencesForAssociationGroupResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_MetadataEx
ceptionStateFault_FaultMessage">
        <wsdl:part xmlns:q664="Microsoft.BusinessData.SharePoint" name="detail"
element="q664:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentEx
ceptionFault_FaultMessage">
        <wsdl:part xmlns:q665="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q665:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_BdcExcepti
onStateFault_FaultMessage">
        <wsdl:part
xmlns:q666="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q666:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_InvalidOpe
rationExceptionFault_FaultMessage">
        <wsdl:part xmlns:q667="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q667:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentOu
tOfRangeExceptionFault_FaultMessage">
        <wsdl:part xmlns:q668="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q668:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_ArgumentNu
llExceptionFault_FaultMessage">
        <wsdl:part xmlns:q669="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q669:ArgumentNullException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InputMessage
">
        <wsdl:part name="parameters" element="tns:AddAssociationReferenceToAssociationGroup" />

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        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_OutputMessag
e">
            <wsdl:part name="parameters"
element="tns:AddAssociationReferenceToAssociationGroupResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentExce
ptionFault_FaultMessage">
            <wsdl:part xmlns:q670="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q670:ArgumentException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_MetadataExce
ptionStateFault_FaultMessage">
            <wsdl:part xmlns:q671="Microsoft.BusinessData.SharePoint" name="detail"
element="q671:MetadataException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentNull
ExceptionFault_FaultMessage">
            <wsdl:part xmlns:q672="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q672:ArgumentNullException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_ArgumentOutO
fRangeExceptionFault_FaultMessage">
            <wsdl:part xmlns:q673="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q673:ArgumentOutOfRangeException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcException
StateFault_FaultMessage">
            <wsdl:part
xmlns:q674="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q674:BdcExceptionState" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_InvalidOpera
tionExceptionFault_FaultMessage">
            <wsdl:part xmlns:q675="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q675:InvalidOperationException" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_InputMe
ssage">
            <wsdl:part name="parameters" element="tns:DeleteAssociationReferenceFromAssociationGroup"
/>
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_OutputM
essage">
            <wsdl:part name="parameters"
element="tns:DeleteAssociationReferenceFromAssociationGroupResponse" />
        </wsdl:message>
        <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tNullExceptionFault_FaultMessage">
            <wsdl:part xmlns:q676="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q676:ArgumentNullException" />
        </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Metadata
aExceptionStateFault_FaultMessage">
    <wsdl:part xmlns:q677="Microsoft.BusinessData.SharePoint" name="detail"
element="q677:MetadataException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tExceptionFault_FaultMessage">
    <wsdl:part xmlns:q678="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q678:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_BdcExce
ptionStateFault_FaultMessage">
    <wsdl:part
xmlns:q679="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q679:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Argumen
tOutOfRangeExceptionFault_FaultMessage">
    <wsdl:part xmlns:q680="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q680:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_Invalid
OperationExceptionFault_FaultMessage">
    <wsdl:part xmlns:q681="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q681:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage">
    <wsdl:part name="parameters" element="tns:GetXmlSchemaForView" />
    </wsdl:message>
    <wsdl:message name="BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetXmlSchemaForViewResponse" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_FaultMessag
e">
    <wsdl:part
xmlns:q682="http://schemas.datacontract.org/2004/07/Microsoft.BusinessData.Infrastructure"
name="detail" element="q682:BdcExceptionState" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFault_Fau
ltMessage">
    <wsdl:part xmlns:q683="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q683:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeExceptionFault_F
aultMessage">
    <wsdl:part xmlns:q684="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q684:ArgumentOutOfRangeException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_FaultM
essage">
    <wsdl:part xmlns:q685="Microsoft.BusinessData.SharePoint" name="detail"
element="q685:MetadataException" />
    </wsdl:message>

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    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_FaultMessag
e">
    <wsdl:part xmlns:q686="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q686:ArgumentException" />
    </wsdl:message>
    <wsdl:message
name="BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_FaultMe
ssage">
    <wsdl:part xmlns:q687="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q687:ArgumentNullException" />
    </wsdl:message>
    <wsdl:portType name="BusinessDataCatalogSharedService">
    <wsdl:operation name="GetServiceApplicationId">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationId"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetServiceApplicationIdResponse"
message="tns:BusinessDataCatalogSharedService_GetServiceApplicationId_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetAllPartitionIds">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIds"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_InvalidOperationExceptionFau
lt_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_AccessDeniedExceptionFault_F
aultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_MetadataExceptionStateFault_
FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPartitionIdsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPartitionIds_BdcExceptionStateFault_Fault
Message" />
    </wsdl:operation>
    <wsdl:operation name="ReadSlicedXml">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXml"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_OutputMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_AccessDeniedExceptionFault_FaultM
essage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentOutOfRangeException_FaultM
essage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_PackageFormatExceptionStateFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_BdcExceptionStateFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_InvalidOperationExceptionFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentNullExceptionFault_FaultM
essage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_ArgumentExceptionFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ReadSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ReadSlicedXml_MetadataExceptionStateFault_Fault
Message" />
    </wsdl:operation>
    <wsdl:operation name="WriteSlicedXml">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXml"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlResponse"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentNullExceptionFault_Fault
Message" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentExceptionFault_FaultMess
age" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/WriteSlicedXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_AccessDeniedExceptionFault_Fault
Message" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_BdcExceptionStateFault_FaultMess
age" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_InvalidOperationExceptionFault_F
aultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_MetadataExceptionStateFault_Faul
tMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/WriteSlicedXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_WriteSlicedXml_PackageFormatExceptionStateFault
_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="HaveRights">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRights" message="tns:BusinessDataCatalogSharedService_HaveRights_InputMessage"
/>
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsResponse"
message="tns:BusinessDataCatalogSharedService_HaveRights_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_BdcExceptionStateFault_FaultMessage"
/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_InvalidOperationExceptionFault_Fault
Message" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_MetadataExceptionStateFault_FaultMes
sage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentExceptionFault_FaultMessage"
/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentNullExceptionFault" name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentNullExceptionFault_FaultMess
age" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/HaveRightsArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_HaveRights_ArgumentOutOfRangeExceptionFault_Fau
ltMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inp
utMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Out
putMessage" />
                <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentOutOfRangeExceptionFault_FaultMessage" />
                    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentOutOfRangeExceptionFault_FaultMessage" />
                        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Bdc
ExceptionStateFault_FaultMessage" />
                            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Inv
alidOperationExceptionFault_FaultMessage" />
                                <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Met
adataExceptionStateFault_FaultMessage" />
                                    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNamesForMetadataObjectStruct_Arg
umentExceptionFault_FaultMessage" />
                                        </wsdl:operation>
                                <wsdl:operation name="GetAllLocalizedNames">
                                    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNames"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InputMessage" />
                                        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetAllLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentNullExceptionFault
_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_BdcExceptionStateFault_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_InvalidOperationExceptionF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_MetadataExceptionStateFau
lt_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllLocalizedNames_ArgumentExceptionFault_Fau
ltMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStruct"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_InputMe
ssage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructResponse"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_OutputM
essage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Invalid
OperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_BdcExce
ptionStateFault_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Metadat
aExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesForMetadataObjectStructArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllPropertiesForMetadataObjectStruct_Argumen
tNullExceptionFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetAllProperties">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllProperties"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_InputMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_OutputMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_InvalidOperationExceptionFault
_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_BdcExceptionStateFault_FaultMe
ssage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_MetadataExceptionStateFault_Fa
ultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentExceptionFault_FaultMe
ssage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAllPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAllProperties_ArgumentNullExceptionFault_Fau
ltMessage" />
            </wsdl:operation>
            <wsdl:operation name="SaveLocalizedName">
                <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/SaveLocalizedName"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameResponse"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_InvalidOperationExceptionFaul
t_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentOutOfRangeExceptionFa
ult_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_BdcExceptionStateFault_FaultM
essage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_MetadataExceptionStateFault_F
aultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentExceptionFault_FaultM
essage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SaveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveLocalizedName_ArgumentNullExceptionFault_Fa
ultMessage" />
</wsdl:operation>
<wsdl:operation name="ClearLocalizedNames">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNames"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesResponse"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentOutOfRangeException
Fault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentNullExceptionFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearLocalizedNamesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_InvalidOperationExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_MetadataExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ClearLocalizedNamesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearLocalizedNames_ArgumentExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="RemoveLocalizedName">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedName"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameResponse"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_InvalidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_MetadataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/RemoveLocalizedNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveLocalizedName_ArgumentNullExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="SaveProperty">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/SaveProperty"
message="tns:BusinessDataCatalogSharedService_SaveProperty_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyResponse"
message="tns:BusinessDataCatalogSharedService_SaveProperty_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_MetadataExceptionStateFault_FaultM
essage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentOutOfRangeException_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_BdcExceptionStateFault_FaultMessag
e" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_InvalidOperationException_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentExceptionFault_FaultMessag
e" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SavePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SaveProperty_ArgumentNullExceptionFault_FaultMe
ssage" />
</wsdl:operation>
<wsdl:operation name="ClearProperties">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearProperties"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesResponse"
message="tns:BusinessDataCatalogSharedService_ClearProperties_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentOutOfRangeException_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_MetadataExceptionStateFault_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentNullExceptionFault_Fau
ltMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_BdcExceptionStateFault_FaultMes
sage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_InvalidOperationExceptionFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ClearPropertiesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ClearProperties_ArgumentExceptionFault_FaultMes
sage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveProperty">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveProperty"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyResponse"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_MetadataExceptionStateFault_Faul
tMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentOutOfRangeExceptionFault
_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentNullExceptionFault_Fault
Message" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_BdcExceptionStateFault_FaultMes
sage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_InvalidOperationExceptionFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemovePropertyArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveProperty_ArgumentExceptionFault_FaultMes
sage" />
    </wsdl:operation>
    <wsdl:operation name="GetAccessControlEntries">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InputMessage" />

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        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_MetadataExceptionStateF
ault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_BdcExceptionStateFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_InvalidOperationExcepti
onFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentExceptionFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentNullExceptionFa
ult_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAccessControlEntries_ArgumentOutOfRangeException
tionFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="SetAccessControlEntries">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntries"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesResponse"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentOutOfRangeException
tionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_BdcExceptionStateFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_InvalidOperationExcepti
onFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_MetadataExceptionStateF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentExceptionFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetAccessControlEntriesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetAccessControlEntries_ArgumentNullExceptionFa
ult_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectCreate">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreate"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentExceptionFault_Fau
ltMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_BdcExceptionStateFault_Fau
ltMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_InvalidOperationExceptionF
ault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentNullExceptionFault
_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_ArgumentOutOfRangeException
nFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectCreate_MetadataExceptionStateFaul
t_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="Update">

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        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Update" message="tns:BusinessDataCatalogSharedService_Update_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateResponse" message="tns:BusinessDataCatalogSharedService_Update_OutputMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentOutOfRangeExceptionFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_BdcExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Update_MetadataExceptionStateFault_FaultMessage
" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_ArgumentNullExceptionFault_FaultMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/UpdateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Update_InvalidOperationExceptionFault_FaultMess
age" />
    </wsdl:operation>
    <wsdl:operation name="Delete">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Delete" message="tns:BusinessDataCatalogSharedService_Delete_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteResponse" message="tns:BusinessDataCatalogSharedService_Delete_OutputMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_BdcExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_InvalidOperationExceptionFault_FaultMess
age" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Delete_MetadataExceptionStateFault_FaultMessage
" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentExceptionFault_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentNullExceptionFault_FaultMessage"
/>

        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Delete_ArgumentOutOfRangeExceptionFault_FaultMe
ssage" />
    </wsdl:operation>
    <wsdl:operation name="MetadataObjectMergeXml">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentExceptionFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_PackageFormatExceptionSt
ateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_BdcExceptionStateFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentOutOfRangeException
ionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_InvalidOperationException
nFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_MetadataExceptionStateFa
ult_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectMergeXml_ArgumentNullExceptionFau
lt_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="MetadataObjectReadXml">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/MetadataObjectReadXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_BdcExceptionStateFault_Fa
ultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_PackageFormatExceptionSta
teFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentNullExceptionFaul
t_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentOutOfRangeException
ionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_InvalidOperationException
Fault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_MetadataExceptionStateFau
lt_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectReadXml_ArgumentExceptionFault_Fa
ultMessage" />
  </wsdl:operation>
  <wsdl:operation name="MetadataObjectWriteXml">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXml"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlResponse"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_PackageFormatExceptionSt
ateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/MetadataObjectWriteXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentNullExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_InvalidOperationExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_MetadataExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/MetadataObjectWriteXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_MetadataObjectWriteXml_ArgumentExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="CopyAclAcrossChildren">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildren"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_InvalidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/CopyAclAcrossChildrenMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_MetadataExceptionStateFault_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentExceptionFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildren_ArgumentNullExceptionFaul
t_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="CopyAclAcrossChildrenForSetting">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InputMessage"
/>
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_OutputMessage"
/>
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_BdcExceptionSta
teFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_InvalidOperatio
nExceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_MetadataExcepti
onStateFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentExcepti
onFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclAcrossChildrenForSettingArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclAcrossChildrenForSetting_ArgumentNullExc
eptionFault_FaultMessage" />
            </wsdl:operation>
            <wsdl:operation name="CopyAclToSetting">
                <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSetting"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InputMessage" />

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        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingResponse"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentExceptionFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_BdcExceptionStateFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_InvalidOperationExceptionFault
_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_MetadataExceptionStateFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CopyAclToSettingArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CopyAclToSetting_ArgumentNullExceptionFault_Fau
ltMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetCacheInvalidationRecordsSince">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSince"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InputMessage"
/>
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceResponse"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_OutputMessage"
/>
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceAccessDeniedExceptionFault"
name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_AccessDeniedEx
ceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_BdcExceptionSt
ateFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_InvalidOperati
onExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_MetadataExcept
ionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSincePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_PackageFormatE
xceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentExcept
ionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentNullEx
ceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetCacheInvalidationRecordsSinceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetCacheInvalidationRecordsSince_ArgumentOutOfR
angeExceptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="ImportPackage">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackage"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackage_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_PackageFormatExceptionStateFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_BdcExceptionStateFault_FaultMessa
ge" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_InvalidOperationExceptionFault_Fa
ultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_MetadataExceptionStateFault_Fault
Message" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentNullExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentExceptionFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentNullExceptionFault_FaultM
essage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackage_ArgumentOutOfRangeExceptionFault_
FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="ImportPackageWithProgress">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgress"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InputMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressResponse"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_OutputMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_PackageFormatExceptio
nStateFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_BdcExceptionStateFaul
t_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_InvalidOperationExcep
tionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_MetadataExceptionStat
eFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentExceptionFaul
t_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentNullException
Fault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ImportPackageWithProgressArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns:BusinessDataCatalogSharedService_ImportPackageWithProgress_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetImportProgress">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgress"
message="tns:BusinessDataCatalogSharedService_GetImportProgress_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetImportProgressResponse"
message="tns:BusinessDataCatalogSharedService_GetImportProgress_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="ExportPackage">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackage"
message="tns:BusinessDataCatalogSharedService_ExportPackage_InputMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageResponse"
message="tns:BusinessDataCatalogSharedService_ExportPackage_OutputMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_BdcExceptionStateFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_InvalidOperationExceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_MetadataExceptionStateFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackagePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_PackageFormatExceptionStateFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentExceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentNullExceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/ExportPackageArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ExportPackage_ArgumentOutOfRangeExceptionFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetModelById">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShared

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edService/GetModelById"
message="tns:BusinessDataCatalogSharedService_GetModelById_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelById_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_InvalidOperationExceptionFault_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_BdcExceptionStateFault_FaultMessag
e" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentOutOfRangeException_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_MetadataExceptionStateFault_FaultM
essage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentExceptionFault_FaultMessag
e" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelById_ArgumentNullExceptionFault_FaultMe
ssage" />
</wsdl:operation>
<wsdl:operation name="GetModelsByName">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByName"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentOutOfRangeException_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_BdcExceptionStateFault_FaultMes
sage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_InvalidOperationExceptionFault_
FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_MetadataExceptionStateFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentExceptionFault_FaultMes
sage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByName_ArgumentNullExceptionFault_Faul
tMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetModelByName">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByName"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetModelByName_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentOutOfRangeExceptionFault
_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_BdcExceptionStateFault_FaultMess
age" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_InvalidOperationExceptionFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_MetadataExceptionStateFault_Faul
tMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentExceptionFault_FaultMess
age" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelByName_ArgumentNullExceptionFault_Fault
Message" />
    </wsdl:operation>
    <wsdl:operation name="GetModelsByEntityId">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityId"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InputMessage" />

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        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdResponse"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentOutOfRangeException
Fault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_BdcExceptionStateFault_Faul
tMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_InvalidOperationExceptionFa
ult_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_MetadataExceptionStateFault
_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentExceptionFault_Faul
tMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetModelsByEntityIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetModelsByEntityId_ArgumentNullExceptionFault_
FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="AddEntityToModel">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModel"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InputMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelResponse"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_OutputMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_InvalidOperationExceptionFault
_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_BdcExceptionStateFault_FaultMe
ssage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_MetadataExceptionStateFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentExceptionFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddEntityToModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddEntityToModel_ArgumentNullExceptionFault_Fau
ltMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveEntityFromModel">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModel"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelResponse"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentOutOfRangeExceptionExcepci
onFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_BdcExceptionStateFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_InvalidOperationException
Fault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_MetadataExceptionStateFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentExceptionFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveEntityFromModelArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveEntityFromModel_ArgumentNullExceptionFaul
t_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DeleteNoCascade">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascade"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InputMessage" />

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        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeResponse"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentNullExceptionFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_BdcExceptionStateFault_FaultMes
sage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_InvalidOperationExceptionFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_MetadataExceptionStateFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteNoCascadeArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteNoCascade_ArgumentExceptionFault_FaultMes
sage" />
        </wsdl:operation>
        <wsdl:operation name="ModelReadXml">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXml"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_InputMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_OutputMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentOutOfRangeException_F
aultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_BdcExceptionStateFault_FaultMessag
e" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_InvalidOperationExceptionFault_Fau
ltMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/ModelReadXmlMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_MetadataExceptionStateFault_FaultM
essage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_PackageFormatExceptionStateFault_F
aultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentExceptionFault_FaultMessag
e" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ModelReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_ModelReadXml_ArgumentNullExceptionFault_FaultMe
ssage" />
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemProxyAssemblyBytesByLobSystemId">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemId"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Inp
utMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Out
putMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Bdc
ExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentOutOfRangeExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Arg
umentNullExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Inv
alidOperationExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_Met
adataExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemProxyAssemblyBytesByLobSystemIdArgumentExceptionFault"
name="ArgumentExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetLobSystemProxyAssemblyBytesByLobSystemId_ArgumentExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemAllAssembliesBytes">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytes"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentOutOfRangeExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentNullExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_BdcExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_InvalidOperationExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_MetadataExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemAllAssembliesBytesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemAllAssembliesBytes_ArgumentExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemDataByLobSystem">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLobSystemDataByLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_InvalidOperationExceptionFault_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentOutOfRangeE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentNullExcepti
onFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_BdcExceptionStateFa
ult_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_MetadataExceptionSt
ateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemDataByLobSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemDataByLobSystem_ArgumentExceptionFa
ult_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetLobSystemDataByLobSystemId">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemId"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdResponse"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentOutOfRang
eExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_BdcExceptionState
Fault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_InvalidOperationE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_MetadataException
StateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentExceptionFault" name="ArgumentExceptionFault"

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message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentException
Fault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetLobSystemDataByLobSystemIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetLobSystemDataByLobSystemId_ArgumentNullExcep
tionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsReferencedByEntitiesAssociatedWithModel">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModel"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentNullExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_InvalidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_MetadataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsReferencedByEntitiesAssociatedWithModelArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsReferencedByEntitiesAssociatedWith
Model_ArgumentExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemByName">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemByNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentNullExceptionFault_F
aultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentOutOfRangeExceptionF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_BdcExceptionStateFault_Fault
Message" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_InvalidOperationExceptionFau
lt_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_MetadataExceptionStateFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemByName_ArgumentExceptionFault_Fault
Message" />
  </wsdl:operation>
  <wsdl:operation name="GetLobSystemsLikeName">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeName"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentNullExceptionFau
lt_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentOutOfRangeException
onFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_BdcExceptionStateFault_Fa
ultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_InvalidOperationException
Fault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_MetadataExceptionStateFau
lt_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemsLikeNameArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemsLikeName_ArgumentExceptionFault_Fa
ultMessage" />
</wsdl:operation>
<wsdl:operation name="GetLobSystemById">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_OutputMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_InvalidOperationExceptionFault
_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_BdcExceptionStateFault_FaultMe
ssage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_MetadataExceptionStateFault_Fa
ultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentExceptionFault_FaultMe
ssage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemById_ArgumentNullExceptionFault_Fau
ltMessage" />
</wsdl:operation>
<wsdl:operation name="GetEntityCount">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCount"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetEntityCountResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_BdcExceptionStateFault_FaultMess
age" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentOutOfRangeExceptionFault
_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_InvalidOperationExceptionFault_F
aultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_MetadataExceptionStateFault_Faul
tMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentExceptionFault_FaultMess
age" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityCountArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityCount_ArgumentNullExceptionFault_Fault
Message" />
  </wsdl:operation>
  <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InputMessa
ge" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_OutputMess
age" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_InvalidOpe
rationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentEx
ceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentOu
tOfRangeExceptionFault_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_BdcExcepti
onStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_MetadataEx
ceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetSystemUtilityTypeNameForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetSystemUtilityTypeNameForLobSystem_ArgumentNu
llExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GenerateProxyAssemblyForLobSystem">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InputMessage"
/>
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_OutputMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentNullE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_ArgumentExcep
tionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_BdcExceptionS
tateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GenerateProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"

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message="tns:BusinessDataCatalogSharedService_GenerateProxyAssemblyForLobSystem_MetadataExcep
tionStateFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="DeleteProxyAssemblyForLobSystem">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystem"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InputMessage"
/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_OutputMessage"
/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentExcepti
onFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentNullExc
eptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_BdcExceptionSta
teFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_InvalidOperatio
nExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_MetadataExcepti
onStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteProxyAssemblyForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteProxyAssemblyForLobSystem_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetLobSystemInstancesForLobSystem">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystem"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InputMessage"
/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_OutputMessage"
/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentOutOf
RangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentExcep
tionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_BdcExceptionS
tateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_InvalidOperat
ionExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_MetadataExcep
tionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstancesForLobSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstancesForLobSystem_ArgumentNullE
xceptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetLobSystemInstanceById">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceById"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_InvalidOperationExcept
ionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentNullExceptionF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_BdcExceptionStateFault
_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"

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message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_MetadataExceptionState
Fault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionExce
ptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetLobSystemInstanceByIdArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetLobSystemInstanceById_ArgumentOutOfRangeExceptionFault
_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetDataClassesForSystem">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystem"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionExcep
tionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_BdcExceptionStateFault_
FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeException"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentOutOfRangeExceptionFault_
FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_ArgumentNullExceptionFa
ult_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_InvalidOperationExceptionExce
ptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassesForSystemMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassesForSystem_MetadataExceptionStateF
ault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetDataClassById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassById"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_InputMessage" />

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        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_MetadataExceptionStateFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_InvalidOperationExceptionFault
_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_BdcExceptionStateFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentExceptionFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentNullExceptionFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDataClassByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDataClassById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetEntitiesReferencedByModelId">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelId"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InputMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_OutputMessage"
/>
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentOutOfRan
geExceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_InvalidOperation
ExceptionFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentNullExcep
tionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_ArgumentExceptio
nFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_BdcExceptionStat
eFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesReferencedByModelIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesReferencedByModelId_MetadataExceptio
nStateFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesLikeNameAndNamespace">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InputMessage"
/>
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_OutputMessage"
/>
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_BdcExceptionSta
teFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_InvalidOperatio
nExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_MetadataExcepti
onStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentExcepti
onFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesLikeNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetEntitiesLikeNameAndNamespace_ArgumentNullExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetEntityWithNameAndNamespace">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespace"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_BdcExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_InvalidOperationExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentNullExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_MetadataExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespace_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersion"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityWithNameAndNamespaceAndVersionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_ArgumentNullExceptionFault_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Argumen
tOutOfRangeExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_BdcExce
ptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Invalid
OperationExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityWithNameAndNamespaceAndVersionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityWithNameAndNamespaceAndVersion_Metadat
aExceptionStateFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesForSystem">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystem"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentExceptionFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_MetadataExceptionStateFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentNullExceptionFault
_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_ArgumentOutOfRangeException
nFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntitiesForSystemBdcExceptionStateFault" name="BdcExceptionStateFault"

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message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForSystemInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForSystem_InvalidOperationExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetEntitiesForAssociationAndRole">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntitiesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntitiesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="SetDefaultActionForEntity">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntity"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/SetDefaultActionForEntityResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage" />
  </wsdl:operation>

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edService/SetDefaultActionForEntityResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_InvalidOperationExcep
tionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentNullException
Fault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentOutOfRangeExc
eptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_ArgumentExceptionFaul
t_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_MetadataExceptionStat
eFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultActionForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultActionForEntity_BdcExceptionStateFaul
t_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRole"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole
_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetEntityNameAndNamespacesForAssociationAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_InvalidOperationExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_MetadataExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityNameAndNamespacesForAssociationAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityNameAndNamespacesForAssociationAndRole_ArgumentNullExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetEntityById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityById"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetEntityById_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_InvalidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentNullExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_MetadataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetEntityByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetEntityById_BdcExceptionStateFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="EntityCreate">

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        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreate"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateResponse"
message="tns:BusinessDataCatalogSharedService_EntityCreate_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_InvalidOperationExceptionFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_MetadataExceptionStateFault_FaultM
essage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_PackageFormatExceptionStateFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentExceptionFault_FaultMessag
e" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentNullExceptionFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_ArgumentOutOfRangeExceptionFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/EntityCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_EntityCreate_BdcExceptionStateFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="Activate">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Activate" message="tns:BusinessDataCatalogSharedService_Activate_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateResponse"
message="tns:BusinessDataCatalogSharedService_Activate_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_InvalidOperationExceptionFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentNullExceptionFault_FaultMessag
e" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentOutOfRangeExceptionFault_Fault
Message" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_BdcExceptionStateFault_FaultMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_MetadataExceptionStateFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Activate_PackageFormatExceptionStateFault_Fault
Message" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/ActivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Activate_ArgumentExceptionFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="Deactivate">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/Deactivate" message="tns:BusinessDataCatalogSharedService_Deactivate_InputMessage"
/>
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateResponse"
message="tns:BusinessDataCatalogSharedService_Deactivate_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivatePackageFormatExceptionStateFault" name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_PackageFormatExceptionStateFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_BdcExceptionStateFault_FaultMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_MetadataExceptionStateFault_FaultMes
sage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentExceptionFault_FaultMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentNullExceptionFault_FaultMes
sage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeactivateArgumentOutOfRangeExceptionFault" name="ArgumentOutOfRangeExceptionFault"

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message="tns:BusinessDataCatalogSharedService_Deactivate_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/DeactivateInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_Deactivate_InvalidOperationExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="BulkSwitchActiveOrValidate">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidate"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateResponse"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_InvalidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_MetadataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidatePackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_PackageFormatExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentNullExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/BulkSwitchActiveOrValidateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_BulkSwitchActiveOrValidate_BdcExceptionStateFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetActionById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionById"
message="tns:BusinessDataCatalogSharedService_GetActionById_InputMessage" />

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        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetActionById_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentOutOfRangeExceptionFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_BdcExceptionStateFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_InvalidOperationExceptionFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_MetadataExceptionStateFault_Fault
Message" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentExceptionFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionById_ArgumentNullExceptionFault_FaultM
essage" />
        </wsdl:operation>
        <wsdl:operation name="GetActionsForEntity">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntity"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentExceptionFault_Faul
tMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentNullExceptionFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_ArgumentOutOfRangeException
Fault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionsForEntityInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_InvalidOperationExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionsForEntityMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionsForEntity_MetadataExceptionStateFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetActionParameterById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterById"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_MetadataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentNullExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParameterById_InvalidOperationExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetActionParametersForAction">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForAction"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage" />
  </wsdl:operation>

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edService/GetActionParametersForActionResponse"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentNullExcept
ionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentExceptionF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_ArgumentOutOfRange
ExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_BdcExceptionStateF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_InvalidOperationEx
ceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetActionParametersForActionMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetActionParametersForAction_MetadataExceptionS
tateFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetIdentifierById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierById"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentNullExceptionFault_Fa
ultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_BdcExceptionStateFault_FaultM
essage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetIdentifierByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_InvalidOperationExceptionFaul
t_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetIdentifierByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_MetadataExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifierByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifierById_ArgumentExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetIdentifiersForEntity">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntity"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_MetadataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentNullExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetIdentifiersForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetIdentifiersForEntity_InvalidOperationExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetMethodById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodById"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InputMessage" />

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        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodById_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_MetadataExceptionStateFault_Fault
Message" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentExceptionFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentNullExceptionFault_FaultM
essage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_ArgumentOutOfRangeExceptionFault_
FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_BdcExceptionStateFault_FaultMessa
ge" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodByIdInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodById_InvalidOperationExceptionFault_Fa
ultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetMethodsForDataClass">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentExceptionFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_BdcExceptionStateFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentOutOfRangeExcept
ionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodsForDataClassInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_InvalidOperationExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_MetadataExceptionStateFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetMethodsForDataClassArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodsForDataClass_ArgumentNullExceptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="IsMethodInstantiated">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiated"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedResponse"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_OutputMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_MetadataExceptionStateFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentNullExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_ArgumentOutOfRangeExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_InvalidOperationExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/IsMethodInstantiatedBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsMethodInstantiated_BdcExceptionStateFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetFilterDescriptorById">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetFilterDescriptorById"

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edService/GetFilterDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentExceptionFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_MetadataExceptionStateF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentNullExceptionFa
ult_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_ArgumentOutOfRangeExcep
tionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_BdcExceptionStateFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorById_InvalidOperationExcepci
onFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetFilterDescriptorsForMethod">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethod"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentException
Fault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentNullExcep
tionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_ArgumentOutOfRang
eExceptionFault_FaultMessage" />
  </wsdl:operation>

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_BdcExceptionState
Fault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_InvalidOperationE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFilterDescriptorsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFilterDescriptorsForMethod_MetadataException
StateFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetMethodInstanceById">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceById"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_BdcExceptionStateFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_InvalidOperationException
Fault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentExceptionFault_Fa
ultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentNullExceptionFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_ArgumentOutOfRangeException
onFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstanceByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstanceById_MetadataExceptionStateFau
lt_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetMethodInstancesForDataClass">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetMethodInstancesForDataClass"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_OutputMessage"
/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_InvalidOperation
ExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_MetadataExceptio
nStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentNullExce
ptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentOutOfRan
geExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_BdcExceptionStat
eFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForDataClass_ArgumentExceptio
nFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetMethodInstancesForMethod">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethod"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_InvalidOperationExc
eptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_MetadataExceptionSt
ateFault_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentExceptionFa
ult_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentNullExcepti
onFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_ArgumentOutOfRangeE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetMethodInstancesForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetMethodInstancesForMethod_BdcExceptionStateFa
ult_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CheckPathInMethodInstances">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstances"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesResponse"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentNullExceptio
nFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_ArgumentExceptionFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_BdcExceptionStateFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/CheckPathInMethodInstancesMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_CheckPathInMethodInstances_MetadataExceptionSta
teFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetParameterById">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterById"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetParameterById_OutputMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentExceptionFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentNullExceptionFault_Fau
ltMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_ArgumentOutOfRangeExceptionFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_BdcExceptionStateFault_FaultMe
ssage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_InvalidOperationExceptionFault
_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParameterByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParameterById_MetadataExceptionStateFault_Fa
ultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetParametersForMethod">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethod"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentExceptionFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_BdcExceptionStateFault_F
aultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentOutOfRangeException
ionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_MetadataExceptionStateFa
ult_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_ArgumentNullExceptionFau
lt_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetParametersForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetParametersForMethod_InvalidOperationExceptio
nFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="IsParameterReferencedByMethodInstance">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstance"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InputMess
age" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_OutputMes
sage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_BdcExcept
ionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_InvalidOp
erationExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentO
utOfRangeExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_ArgumentN
ullExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/IsParameterReferencedByMethodInstanceMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_IsParameterReferencedByMethodInstance_MetadataE
xceptionStateFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeReflectorTypeNameForParameter"

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message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_MetadataExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentNullExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeReflectorTypeNameForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeReflectorTypeNameForParameter_InvalidOperationExceptionFault_FaultMessage" />
</wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"

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message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_MetadataExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentNullExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorArgumentOutOfRangeExceptionF
ault" name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptorInvalidOperationExceptionFau
lt" name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsWithIdentifiersForTypeDe
scriptor_InvalidOperationExceptionFault_FaultMessage" />
</wsdl:operation>
  <wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstance"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_InputMe
ssage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceResponse"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_OutputM
essage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Invalid
OperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_BdcExce
ptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceMetadataExceptionStateFault"

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name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Metadata
aExceptionStateFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetFieldTypeDescriptorsByMethodInstanceArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetFieldTypeDescriptorsByMethodInstance_Argumen
tNullExceptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorById">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorById"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_OutputMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_MetadataExceptionStateFau
lt_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentExceptionFault_Fa
ultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentNullExceptionFau
lt_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_ArgumentOutOfRangeException
Fault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_InvalidOperationException
Fault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorById_BdcExceptionStateFault_Fa
ultMessage" />
</wsdl:operation>
<wsdl:operation name="GetRootTypeDescriptorForParameter">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameter"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InputMessage"
/>
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_OutputMessage
" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentNullE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_MetadataExcep
tionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentExcep
tionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_ArgumentOutOf
RangeExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_BdcExceptionS
tateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetRootTypeDescriptorForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetRootTypeDescriptorForParameter_InvalidOperat
ionExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameter"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_In
putMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ou
tputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Bd
cExceptionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_Ar
gumentNullExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetTypeDescriptorsByNameAndLevelForParameterArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_InvalidOperationExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsByNameAndLevelForParameterMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsByNameAndLevelForParameter_MetadataExceptionStateFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_BdcExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetChildTypeDescriptorsForTypeDescriptorMetadataExceptionStateFault"

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name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetChildTypeDescriptorsForTypeDescriptor_MetadataExceptionStateFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptor"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_MetadataExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentNullExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetTypeDescriptorsForFilterDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetTypeDescriptorsForFilterDescriptor_InvalidOperationExceptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_OutputMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetDefaultValuesForTypeDescriptor">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InputMessage"
/>
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_OutputMessage"
/>
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_BdcExceptionS
tateFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_InvalidOperat
ionExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"

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message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentOutOf
RangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_MetadataExcep
tionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentExcep
tionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/SetDefaultValuesForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_SetDefaultValuesForTypeDescriptor_ArgumentNullE
xceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InputMessag
e" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_OutputMessa
ge" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_MetadataExc
eptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentNul
lExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentOut
OfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_ArgumentExc
eptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_InvalidOper
ationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteDefaultValueForTypeDescriptorBdcExceptionStateFault"

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name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteDefaultValueForTypeDescriptor_BdcExceptionStateFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetLevelForTypeDescriptor">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptor"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorResponse"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentNullExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_InvalidOperationExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/GetLevelForTypeDescriptorMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetLevelForTypeDescriptor_MetadataExceptionStateFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="TypeDescriptorCreate">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreate"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_BdcExceptionStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogSharedService/TypeDescriptorCreateMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFault_FaultMessage" />
</wsdl:operation>

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edService/TypeDescriptorCreateInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_InvalidOperationExceptionF
ault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentNullExceptionFault
_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentOutOfRangeExceptionExcepio
nFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_MetadataExceptionStateFaul
t_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorCreateArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorCreate_ArgumentExceptionFault_Fau
ltMessage" />
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXml"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_OutputMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_InvalidOperationException
nFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_MetadataExceptionStateFa
ult_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_PackageFormatExceptionSt
ateFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentExceptionFault_F
aultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentNullExceptionFau
lt_FaultMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_ArgumentOutOfRangeExceptionExcept
ionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorMergeXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorMergeXml_BdcExceptionStateFault_F
aultMessage" />
        </wsdl:operation>
        <wsdl:operation name="TypeDescriptorReadXml">
            <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXml"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InputMessage" />
            <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlResponse"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_OutputMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlPackageFormatExceptionStateFault"
name="PackageFormatExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_PackageFormatExceptionSta
teFault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_InvalidOperationException
Fault_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_MetadataExceptionStateFau
lt_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_BdcExceptionStateFault_Fa
ultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentExceptionFault_Fa
ultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentNullExceptionFaul
t_FaultMessage" />
            <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/TypeDescriptorReadXmlArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_TypeDescriptorReadXml_ArgumentOutOfRangeExceptionExcepti
onFault_FaultMessage" />
            </wsdl:operation>
            <wsdl:operation name="GetAssociationById">
                <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetAssociationById"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_MetadataExceptionStateFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_BdcExceptionStateFault_Fault
Message" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentOutOfRangeExceptionF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_InvalidOperationExceptionFau
lt_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentExceptionFault_Fault
Message" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationByIdArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationById_ArgumentNullExceptionFault_F
aultMessage" />
</wsdl:operation>
<wsdl:operation name="GetAssociationsForEntityAndRole">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InputMessage"
/>
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_OutputMessage"
/>
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentNullExc
eptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentExcepti
onFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetAssociationsForEntityAndRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_MetadataExcepti
onStateFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_ArgumentOutOfRa
ngeExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_InvalidOperatio
nExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForEntityAndRoleBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForEntityAndRole_BdcExceptionSta
teFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetAssociationsForDataClass">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClass"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentExceptionFa
ult_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_MetadataExceptionSt
ateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentNullExcepti
onFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_ArgumentOutOfRangeE
xceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_BdcExceptionStateFa
ult_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForDataClassInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetAssociationsForDataClass_InvalidOperationExc
ptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetAssociationsForMethod">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethod"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentNullExceptionF
ault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentOutOfRangeExce
ptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_BdcExceptionStateFault
_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_InvalidOperationExcept
ionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_MetadataExceptionState
Fault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationsForMethodArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationsForMethod_ArgumentExceptionFault
_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetAssociationMembersInRole">
  <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRole"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InputMessage" />
  <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_BdcExceptionStateFa
ult_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleInvalidOperationExceptionFault"

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name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_InvalidOperationExc
eptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentExceptionFa
ult_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentNullExcepti
onFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_ArgumentOutOfRangeE
xceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationMembersInRoleMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationMembersInRole_MetadataExceptionSt
ateFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetThrottlingRules">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRules"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesResponse"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_OutputMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentNullExceptionFault_F
aultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_BdcExceptionStateFault_Fault
Message" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_ArgumentExceptionFault_Fault
Message" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetThrottlingRulesAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetThrottlingRules_AccessDeniedExceptionFault_F
aultMessage" />
</wsdl:operation>
<wsdl:operation name="AddThrottlingRule">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRule"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/AddThrottlingRuleResponse"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_OutputMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_BdcExceptionStateFault_FaultM
essage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentExceptionFault_FaultM
essage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_ArgumentNullExceptionFault_Fa
ultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddThrottlingRule_AccessDeniedExceptionFault_Fa
ultMessage" />
  </wsdl:operation>
  <wsdl:operation name="RemoveThrottlingRule">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRule"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleResponse"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentNullExceptionFault
_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleAccessDeniedExceptionFault" name="AccessDeniedExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_AccessDeniedExceptionFault
_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_BdcExceptionStateFault_Fau
ltMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/RemoveThrottlingRuleArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_RemoveThrottlingRule_ArgumentExceptionFault_Fau
ltMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetAssociationGroupById">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupById"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InputMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_OutputMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/GetAssociationGroupByIdBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_BdcExceptionStateFault_
FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentExceptionFault_
FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentOutOfRangeExcep
tionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_ArgumentNullExceptionFa
ult_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_InvalidOperationExcepci
onFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupByIdMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupById_MetadataExceptionStateF
ault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupsForEntity">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntity"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_OutputMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_MetadataException
StateFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentNullExcep
tionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentOutOfRang
eExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"

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message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_InvalidOperationE
xceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_ArgumentException
Fault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationGroupsForEntityBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationGroupsForEntity_BdcExceptionState
Fault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetAssociationReferencesForAssociationGroup">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroup"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Inp
utMessage" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Out
putMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Met
adataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Bdc
ExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Inv
alidOperationExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetAssociationReferencesForAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetAssociationReferencesForAssociationGroup_Arg
umentNullExceptionFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="AddAssociationReferenceToAssociationGroup">
    <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar

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edService/AddAssociationReferenceToAssociationGroup"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Input
Message" />
    <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Outpu
tMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupMetadataExceptionStateFault"
name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Metad
ataExceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entNullExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Argum
entOutOfRangeExceptionFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_BdcEx
ceptionStateFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/AddAssociationReferenceToAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_AddAssociationReferenceToAssociationGroup_Inval
idOperationExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
        <wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroup"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InputMessage" />
        <wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupResponse"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
OutputMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentNullExceptionFault"
name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentNullExceptionFault_FaultMessage" />
        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupMetadataExceptionStateFault"

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name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
MetadataExceptionStateFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupBdcExceptionStateFault"
name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
BdcExceptionStateFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
ArgumentOutOfRangeExceptionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/DeleteAssociationReferenceFromAssociationGroupInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_DeleteAssociationReferenceFromAssociationGroup_
InvalidOperationExceptionFault_FaultMessage" />
</wsdl:operation>
<wsdl:operation name="GetXmlSchemaForView">
<wsdl:input
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForView"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InputMessage" />
<wsdl:output
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewResponse"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_OutputMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewBdcExceptionStateFault" name="BdcExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_BdcExceptionStateFault_Faul
tMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewInvalidOperationExceptionFault"
name="InvalidOperationExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_InvalidOperationExceptionFa
ult_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentOutOfRangeExceptionFault"
name="ArgumentOutOfRangeExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentOutOfRangeException
Fault_FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewMetadataExceptionStateFault" name="MetadataExceptionStateFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_MetadataExceptionStateFault_
FaultMessage" />
<wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShar
edService/GetXmlSchemaForViewArgumentExceptionFault" name="ArgumentExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentExceptionFault_Faul
tMessage" />

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        <wsdl:fault
wsam:Action="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetXmlSchemaForViewArgumentNullExceptionFault" name="ArgumentNullExceptionFault"
message="tns:BusinessDataCatalogSharedService_GetXmlSchemaForView_ArgumentNullExceptionFault_
FaultMessage" />
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CustomBinding_BusinessDataCatalogSharedService"
type="tns:BusinessDataCatalogSharedService">
        <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
        <wsdl:operation name="GetServiceApplicationId">
            <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetServiceApplicationId" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="GetAllPartitionIds">
            <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPartitionIds" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="InvalidOperationExceptionFault">
                <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
            </wsdl:fault>
            <wsdl:fault name="AccessDeniedExceptionFault">
                <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace="" />
            </wsdl:fault>
            <wsdl:fault name="MetadataExceptionStateFault">
                <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
            </wsdl:fault>
            <wsdl:fault name="BdcExceptionStateFault">
                <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
            </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="ReadSlicedXml">
            <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ReadSlicedXml" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AccessDeniedExceptionFault">
                <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace="" />
            </wsdl:fault>
            <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
                <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
            </wsdl:fault>
        </wsdl:operation>
    </wsdl:binding>

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        <wsdl:fault name="PackageFormatExceptionStateFault">
            <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="WriteSlicedXml">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/WriteSlicedXml" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="AccessDeniedExceptionFault">
            <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="PackageFormatExceptionStateFault">
            <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="HaveRights">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/HaveRights" style="document" />
        <wsdl:input>

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        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllLocalizedNamesForMetadataObjectStruct">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNamesForMetadataObjectStruct" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllLocalizedNames">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllLocalizedNames" style="document" />
    <wsdl:input>
        <soap:body use="literal" />

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</wsdl:input>
<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllPropertiesForMetadataObjectStruct">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllPropertiesForMetadataObjectStruct" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAllProperties">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAllProperties" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>

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<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SaveLocalizedName">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveLocalizedName" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ClearLocalizedNames">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearLocalizedNames" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>

```

```

        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveLocalizedName">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveLocalizedName" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SaveProperty">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SaveProperty" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>

```

```

</wsdl:output>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ClearProperties">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ClearProperties" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="RemoveProperty">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveProperty" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:operation>

```



```

        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAccessControlEntries">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/GetAccessControlEntries" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetAccessControlEntries">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/SetAccessControlEntries" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectCreate">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectCreate" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Update">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Update" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />

```

```

</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Delete">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Delete" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="MetadataObjectMergeXml">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/MetadataObjectMergeXml" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>

```

```

        <wsdl:fault name="PackageFormatExceptionStateFault">
            <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="MetadataObjectReadXml">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/MetadataObjectReadXml" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="PackageFormatExceptionStateFault">
            <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="MetadataObjectWriteXml">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/MetadataObjectWriteXml" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>

```

```

        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclAcrossChildren">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildren" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclAcrossChildrenForSetting">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclAcrossChildrenForSetting" style="document" />
    <wsdl:input>
        <soap:body use="literal" />

```

```

</wsdl:input>
<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CopyAclToSetting">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CopyAclToSetting" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetCacheInvalidationRecordsSince">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetCacheInvalidationRecordsSince" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>

```

```

<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
<wsdl:fault name="AccessDeniedExceptionFault">
  <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportPackage">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackage" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>

```

```

</wsdl:operation>
<wsdl:operation name="ImportPackageWithProgress">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ImportPackageWithProgress" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetImportProgress">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetImportProgress" style="document" />
  <wsdl:input>
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    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
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  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/ExportPackage" style="document" />
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    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
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    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
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  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>

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</wsdl:fault>
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  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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<wsdl:fault name="PackageFormatExceptionStateFault">
  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
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<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
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  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
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  </wsdl:input>
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    <soap:body use="literal" />
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    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
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  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
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    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetModelsByName">
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soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetModelsByName" style="document" />
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  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
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    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
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  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
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  </wsdl:input>
  <wsdl:output>
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    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
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    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
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        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
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        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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    </wsdl:fault>
</wsdl:operation>
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dService/RemoveEntityFromModel" style="document" />
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        <soap:body use="literal" />
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  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
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  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
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  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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  <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
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<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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  </wsdl:input>
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    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
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    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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</wsdl:operation>
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dService/GetLobSystemAllAssembliesBytes" style="document" />
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        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
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        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
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        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
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    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />

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  </wsdl:input>
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  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
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    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
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  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
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  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
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  </wsdl:input>
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    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

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        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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      </wsdl:input>
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      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
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    <wsdl:operation name="GetSystemUtilityTypeNameForLobSystem">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetSystemUtilityTypeNameForLobSystem" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
      </wsdl:fault>

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</wsdl:fault>
<wsdl:fault name="BdcExceptionStateFault">
  <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GenerateProxyAssemblyForLobSystem">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GenerateProxyAssemblyForLobSystem" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="DeleteProxyAssemblyForLobSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteProxyAssemblyForLobSystem" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
  </wsdl:operation>

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        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstancesForLobSystem">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstancesForLobSystem" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetLobSystemInstanceById">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLobSystemInstanceById" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">

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        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDataClassesForSystem">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassesForSystem" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDataClassById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDataClassById" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>

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        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesReferencedByModelId">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesReferencedByModelId" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntitiesLikeNameAndNamespace">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntitiesLikeNameAndNamespace" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>

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        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntityWithNameAndNamespace">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/GetEntityWithNameAndNamespace" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntityWithNameAndNamespaceAndVersion">
        <soap:operation
            soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
            dService/GetEntityWithNameAndNamespaceAndVersion" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">

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        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetDefaultActionForEntity">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultActionForEntity" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntityNameAndNamespacesForAssociationAndRole">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityNameAndNamespacesForAssociationAndRole" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>

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        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntityById">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetEntityById" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="EntityCreate">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/EntityCreate" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="PackageFormatExceptionStateFault">
            <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">

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        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Activate">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Activate" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="Deactivate">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/Deactivate" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>

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</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="BulkSwitchActiveOrValidate">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/BulkSwitchActiveOrValidate" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="PackageFormatExceptionStateFault">
    <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionById" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>

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<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetActionsForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionsForEntity" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
      <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
      <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
      <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
      <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
<wsdl:operation name="GetActionParameterById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParameterById" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
      <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
      <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">

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        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetActionParametersForAction">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetActionParametersForAction" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetIdentifierById">
      <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifierById" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
      </wsdl:fault>

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</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentExceptionFault">
  <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetIdentifiersForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetIdentifiersForEntity" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetMethodById">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodById" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>

```

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        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetMethodsForDataClass">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodsForDataClass" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="IsMethodInstantiated">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsMethodInstantiated" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">

```

```

        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFilterDescriptorById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorById" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFilterDescriptorsForMethod">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFilterDescriptorsForMethod" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>

```



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        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstanceById">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstanceById" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForDataClass">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstancesForDataClass" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>

```

```

        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetMethodInstancesForMethod">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetMethodInstancesForMethod" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CheckPathInMethodInstances">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/CheckPathInMethodInstances" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>

```

```

    <wsdl:operation name="GetParameterById">
      <soap:operation
        soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetParameterById" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetParametersForMethod">
      <soap:operation
        soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetParametersForMethod" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="IsParameterReferencedByMethodInstance">

```

```

        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/IsParameterReferencedByMethodInstance" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetTypeReflectorTypeNameForParameter">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeReflectorTypeNameForParameter" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsWithIdentifiersForTypeDescriptor" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetFieldTypeDescriptorsByMethodInstance">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetFieldTypeDescriptorsByMethodInstance" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorById">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorById" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetRootTypeDescriptorForParameter">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetRootTypeDescriptorForParameter" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsByNameAndLevelForParameter">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsByNameAndLevelForParameter" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetChildTypeDescriptorsForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetChildTypeDescriptorsForTypeDescriptor" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetTypeDescriptorsForFilterDescriptor">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetTypeDescriptorsForFilterDescriptor" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDefaultValuesForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetDefaultValuesForTypeDescriptor" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDefaultValuesForTypeDescriptor">

```



```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/SetDefaultValuesForTypeDescriptor" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteDefaultValueForTypeDescriptor">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteDefaultValueForTypeDescriptor" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLevelForTypeDescriptor">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetLevelForTypeDescriptor" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorCreate">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorCreate" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorMergeXml">

```

```

    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorMergeXml" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TypeDescriptorReadXml">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/TypeDescriptorReadXml" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PackageFormatExceptionStateFault">
        <soap:fault use="literal" name="PackageFormatExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>

```

```

        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationById">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationById" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationsForEntityAndRole">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForEntityAndRole" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">

```

```

        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForDataClass">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForDataClass" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationsForMethod">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationsForMethod" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>

```

```

        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAssociationMembersInRole">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationMembersInRole" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="InvalidOperationExceptionFault">
            <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
            <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="MetadataExceptionStateFault">
            <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetThrottlingRules">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetThrottlingRules" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="BdcExceptionStateFault">
            <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="AccessDeniedExceptionFault">
            <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddThrottlingRule">
        <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddThrottlingRule" style="document" />
        <wsdl:input>

```

```

        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="AccessDeniedExceptionFault">
        <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveThrottlingRule">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/RemoveThrottlingRule" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="AccessDeniedExceptionFault">
        <soap:fault use="literal" name="AccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupById">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupById" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>

```

```

</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="MetadataExceptionStateFault">
  <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationGroupsForEntity">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationGroupsForEntity" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAssociationReferencesForAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetAssociationReferencesForAssociationGroup" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>

```



```

<wsdl:fault name="InvalidOperationExceptionFault">
  <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentOutOfRangeExceptionFault">
  <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="ArgumentNullExceptionFault">
  <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddAssociationReferenceToAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/AddAssociationReferenceToAssociationGroup" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
    <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">
    <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="InvalidOperationExceptionFault">
    <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteAssociationReferenceFromAssociationGroup">
  <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/DeleteAssociationReferenceFromAssociationGroup" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ArgumentNullExceptionFault">
    <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="MetadataExceptionStateFault">
    <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="ArgumentExceptionFault">
    <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="BdcExceptionStateFault">

```

```

        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetXmlSchemaForView">
    <soap:operation
soapAction="http://www.microsoft.com/Office/2009/BusinessDataCatalog/BusinessDataCatalogShare
dService/GetXmlSchemaForView" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="BdcExceptionStateFault">
        <soap:fault use="literal" name="BdcExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="InvalidOperationExceptionFault">
        <soap:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentOutOfRangeExceptionFault">
        <soap:fault use="literal" name="ArgumentOutOfRangeExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="MetadataExceptionStateFault">
        <soap:fault use="literal" name="MetadataExceptionStateFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentExceptionFault">
        <soap:fault use="literal" name="ArgumentExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="ArgumentNullExceptionFault">
        <soap:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
</wsdl:binding></wsdl:definitions>

```

7 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® SharePoint® Foundation 2010

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

[<1> Section 2.2.4:](#) SharePoint Foundation 2010 requires that Business Logic Modules conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

[<2> Section 2.2.4.4:](#) In SharePoint Foundation 2010, only the restriction that the index be greater than or equal to zero is enforced.

[<3> Section 2.2.4.41:](#) In SharePoint Foundation 2010, this can be other values.

[<4> Section 2.2.4.51:](#) SharePoint Foundation 2010 requires that Business Logic Modules conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

[<5> Section 2.2.4.54:](#) The culture names used by SharePoint Foundation 2010 are as specified in [\[MSDN-SharePointSDK\]](#).

[<6> Section 2.2.4.54:](#) SharePoint Foundation 2010 requires this data type to conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and to be understood by the .NET Framework.

[<7> Section 2.2.4.54:](#) SharePoint Foundation 2010 requires that the data type to conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

[<8> Section 2.2.4.54:](#) The SharePoint Foundation 2010 module that performs the mapping of value of the **typeName** element to data types requires the value of the **typeName** element to be in the following format expressed in ABNF, as specified in [\[RFC5234\]](#):

```
Value = TypeName *1(%x2C BusinessLogicModule)
BusinessLogicModule = FullAssemblyName / LobSystemName
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

TypeName: The name of the type that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework. The format is as specified in [\[MS-NRTP\]](#) section 2.2.1.2.

LobSystemName: The name of the LobSystem that contains the TypeDescriptor.

The occurrence of the **BusinessLogicModule** element is required by SharePoint Foundation 2010 to yield to a **LobSystemName** element if the represented data type resides in the Business Logic Module associated with the LobSystem that contains the TypeDescriptor. Otherwise, the occurrence of **BusinessLogicModule** is required by SharePoint Foundation 2010 to be a **FullAssemblyName** element. The values for the **TypeName** specified in the following table do not require a **BusinessLogicModule**.

Value	Description
System.String	A string of Unicode text.
System.Int16	A number in the range from -32,768 through 32,767.
System.Int32	A number in the range from -2,147,483,648 through 2,147,483,647.
System.Int64	A number in the range from -9,223,372,036,854,775,808 through 9,223,372,036,854,775,807.
System.UInt16	A number in the range from zero through 65535.
System.UInt32	A number in the range from zero through 4,294,967,295.
System.UInt64	A number in the range from zero through 18,446,744,073,709,551,615.
System.DateTime	A date and time in the range from midnight, January 1, 1 A.D. through 11:59:59 PM, December 31, 9999 A.D., with a resolution of 100 nanoseconds.
System.TimeSpan	A duration in the range from negative 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 800 nanoseconds through positive 10,675,199 days 2 hours 48 minutes 5 seconds 477 milliseconds 580 microseconds 700 nanoseconds, with a resolution of 100 nanoseconds.
System.Single	A single-precision number in the range from -3.402823e38 through 3.402823e38.
System.Double	A double-precision number in the range from -1.79769313486232e308 through 1.79769313486232e308, as well as positive zero, negative zero, positive infinity, negative infinity, and NaN.
System.Decimal	A number in the range from -79,228,162,514,264,337,593,543,950,335 through 79,228,162,514,264,337,593,543,950,335.
System.Char	A Unicode character.
System.Byte	A number in the range from zero through 255.
System.SByte	A number in the range from -128 through 127.
System.Guid	A GUID.
System.Boolean	A bit.
System.Uri	A URL .

<9> [Section 2.2.5.9](#): A Business Logic Module that conforms to the [\[ECMA-335\]](#) specification and is understood by the .NET Framework.

<10> [Section 3.1](#): SharePoint Foundation 2010 does this for some requests from untrusted sources.

<11> [Section 3.1](#): SharePoint Foundation 2010 does this for some requests from highly-trusted sources.

<12> [Section 3.1.4](#): In SharePoint Foundation 2010 implementation, the protocol client specifies the last known values for these elements. The protocol server uses the specified values to construct error messages and other informational messages.

<13> [Section 3.1.4](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<14> [Section 3.1.4](#): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<15> [Section 3.1.4](#): In SharePoint Foundation 2010, this operation always returns zero TypeDescriptors.

<16> [Section 3.1.4](#): The behavior is identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

<17> [Section 3.1.4](#): A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

<18> [Section 3.1.4](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

<19> [Section 3.1.4](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<20> [Section 3.1.4](#): SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

<21> [Section 3.1.4](#): A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<22> [Section 3.1.4](#): SharePoint Foundation 2010 does not enforce the specified MetadataObject to be a Model or an LobSystem.

<23> [Section 3.1.4.3](#): SharePoint Foundation 2010 does not return a fault when the specified Entity is not found.

<24> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 does not return a fault.

<25> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 returns a [MetadataException \(from namespace Microsoft.BusinessData.SharePoint\)](#) serialized as specified in section [2.2.4](#).

<26> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 returns a [MetadataException \(from namespace Microsoft.BusinessData.SharePoint\)](#) serialized as specified in section [2.2.4](#).

<27> [Section 3.1.4.14](#): In this case, SharePoint Foundation 2010 returns a [MetadataException \(from namespace Microsoft.BusinessData.SharePoint\)](#) serialized as specified in section [2.2.4](#).

<28> [Section 3.1.4.17](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<29> [Section 3.1.4.17.2.1](#): A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<30> [Section 3.1.4.19](#): In SharePoint Foundation 2010, a security principal (1) is authorized to export a MetadataObject if the same security principal (1) is authorized to modify the same MetadataObject.

<31> [Section 3.1.4.20](#): The Business Logic Module conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<32> [Section 3.1.4.24](#): SharePoint Foundation 2010 does not raise an error in this case.

<33> [Section 3.1.4.24](#): SharePoint Foundation 2010 does not raise an error in this case.

<34> [Section 3.1.4.25](#): SharePoint Foundation 2010 does not raise an error in this case.

<35> [Section 3.1.4.26](#): SharePoint Foundation 2010 does not raise an error in this case.

<36> [Section 3.1.4.27](#): SharePoint Foundation 2010 does not raise an error in this case.

<37> [Section 3.1.4.33](#): SharePoint Foundation 2010 does not return a fault in this case.

<38> [Section 3.1.4.33](#): SharePoint Foundation 2010 does not return a fault in this case.

<39> [Section 3.1.4.35](#): SharePoint Foundation 2010 does not raise an error in this case.

<40> [Section 3.1.4.36](#): SharePoint Foundation 2010 does not raise an error in this case.

<41> [Section 3.1.4.38](#): SharePoint Foundation 2010 does not raise an error in this case.

<42> [Section 3.1.4.40](#): SharePoint Foundation 2010 does not raise an error in this case.

<43> [Section 3.1.4.41](#): In SharePoint Foundation 2010, this operation always returns zero TypeDescriptors.

<44> [Section 3.1.4.41](#): SharePoint Foundation 2010 does not raise an error in this case.

<45> [Section 3.1.4.43](#): SharePoint Foundation 2010 does not return a fault in this case.

<46> [Section 3.1.4.45](#): SharePoint Foundation 2010 does not raise an error in this case.

<47> [Section 3.1.4.45](#): SharePoint Foundation 2010 does not raise an error in this case.

<48> [Section 3.1.4.46](#): SharePoint Foundation 2010 does not return a fault in this case.

<49> [Section 3.1.4.48](#): SharePoint Foundation 2010 does not return a fault in this case.

<50> [Section 3.1.4.50](#): SharePoint Foundation 2010 does not raise an error in this case.

<51> [Section 3.1.4.50](#): SharePoint Foundation 2010 does not raise an error in this case.

<52> [Section 3.1.4.56](#): SharePoint Foundation 2010 does not return a fault in this case.

<53> [Section 3.1.4.56](#): SharePoint Foundation 2010 does not return a fault in this case.

<54> [Section 3.1.4.58](#): SharePoint Foundation 2010 does not return a fault in this case.

<55> [Section 3.1.4.58](#): SharePoint Foundation 2010 does not return a fault in this case.

[<56> Section 3.1.4.60:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<57> Section 3.1.4.60:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<58> Section 3.1.4.61:](#) The behavior is identified by the specific implementation of the custom code that handles LobSystem data, and is not understood by the protocol server implementation.

[<59> Section 3.1.4.61:](#) SharePoint Foundation 2010 checks the edit rights of the security principal (1) on the LobSystem to determine if the security principal (1) is authorized to read the LobSystem.

[<60> Section 3.1.4.63:](#) SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

[<61> Section 3.1.4.64:](#) A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and are understood by the .NET Framework.

[<62> Section 3.1.4.64:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<63> Section 3.1.4.64:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<64> Section 3.1.4.64.2.2:](#) A set of Business Logic Modules that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

[<65> Section 3.1.4.66:](#) SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

[<66> Section 3.1.4.66:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<67> Section 3.1.4.66:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<68> Section 3.1.4.67:](#) A Business Logic Module that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

[<69> Section 3.1.4.67:](#) SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

[<70> Section 3.1.4.67.2.2:](#) A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

[<71> Section 3.1.4.69:](#) SharePoint Foundation 2010 checks the edit rights of the security principal on the LobSystem to determine if the security principal is authorized to read the LobSystem.

[<72> Section 3.1.4.69:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<73> Section 3.1.4.69:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<74> Section 3.1.4.72:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<75> Section 3.1.4.73:](#) SharePoint Foundation 2010 does not raise an error in this case.

[<76> Section 3.1.4.74:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<77> Section 3.1.4.74:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<78> Section 3.1.4.77:](#) SharePoint Foundation 2010 does not return a fault in this case.

[<79> Section 3.1.4.80:](#) SharePoint Foundation 2010 does not return a fault in this case.

<80> [Section 3.1.4.80:](#) SharePoint Foundation 2010 does not return a fault in this case.

<81> [Section 3.1.4.83.2.2:](#) SharePoint Foundation 2010 requires the identifier to be in the following format as expressed in ABNF, as specified in [\[RFC5234\]](#):

```
Identifier = TypeName (%x2C FullAssemblyName)
FullAssemblyName = LibraryIdentifier %x2C VersionProperty %x2C CultureProperty %x2C
PublicKeyTokenProperty
```

LibraryIdentifier, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as specified in [\[MS-NRTP\]](#) section 2.2.1.3.

TypeName: The name of the type that conforms to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework. The format is specified in [\[MS-NRTP\]](#) section 2.2.1.2. The specified type implements operations that are described in [\[MSDN-SharePointSDK\]](#).

<82> [Section 3.1.4.97:](#) SharePoint Foundation 2010 returns a fault containing the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System.InvalidOperationException) complex type in this case.

<83> [Section 3.1.4.99:](#) SharePoint Foundation 2010 returns a fault containing the [InvalidOperationException \(from namespace http://schemas.datacontract.org/2004/07/System\)](http://schemas.datacontract.org/2004/07/System.InvalidOperationException) complex type in this case.

<84> [Section 3.1.4.100.2.1:](#) SharePoint Foundation 2010 does not validate this constraint.

<85> [Section 3.1.4.100.2.1:](#) SharePoint Foundation 2010 does not enforce this to be **MetadataCatalog**.

<86> [Section 3.1.4.110:](#) A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<87> [Section 3.1.4.110.2.1:](#) A set of Business Logic Modules that conform to the Common Language Infrastructure (CLI), as specified in [\[ECMA-335\]](#), and is understood by the .NET Framework.

<88> [Section 3.1.4.114:](#) SharePoint Foundation 2010 does not raise an error in this case

<89> [Section 3.1.4.115:](#) SharePoint Foundation 2010 does not enforce the specified MetadataObject to be a Model or an LobSystem.

<90> [Section 3.1.4.115.2.1:](#) SharePoint Foundation 2010 does not validate this constraint.

8 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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