

[MS-VGSP]: Visio Graphics Service Protocol Specification

Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation for protocols, file formats, languages, standards as well as overviews of the interaction among each of these technologies.
- **Copyrights.** This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you may make copies of it in order to develop implementations of the technologies described in the Open Specifications and may distribute portions of it in your implementations using these technologies or your documentation as necessary to properly document the implementation. You may also distribute in your implementation, with or without modification, any schema, IDL's, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that may cover your implementations of the technologies described in the Open Specifications. Neither this notice nor Microsoft's delivery of the documentation grants any licenses under those or any other Microsoft patents. However, a given Open Specification may be covered by Microsoft's Open Specification Promise (available here: <http://www.microsoft.com/interop/osp>) or the Community Promise (available here: <http://www.microsoft.com/interop/cp/default.msp>). If you would prefer a written license, or if the technologies described in the Open Specifications are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplq@microsoft.com.
- **Trademarks.** The names of companies and products contained in this documentation may be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights.
- **Fictitious Names.** The example companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

Reservation of Rights. All other rights are reserved, and this notice does not grant any rights other than specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications do not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments you are free to take advantage of them. Certain Open Specifications are intended for use in conjunction with publicly available standard specifications and network programming art, and assumes that the reader either is familiar with the aforementioned material or has immediate access to it.

Revision Summary

Date	Revision History	Revision Class	Comments
07/13/2009	0.1	Major	Initial Availability
08/28/2009	0.2	Editorial	Revised and edited the technical content
11/06/2009	0.3	Editorial	Revised and edited the technical content
02/19/2010	1.0	Major	Updated and revised the technical content
03/31/2010	1.01	Editorial	Revised and edited the technical content
04/30/2010	1.02	Editorial	Revised and edited the technical content
06/07/2010	1.03	Editorial	Revised and edited the technical content
06/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
07/23/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
09/27/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
03/18/2011	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
06/10/2011	1.5	Minor	Clarified the meaning of the technical content.

Table of Contents

1	Introduction	6
1.1	Glossary	6
1.2	References.....	6
1.2.1	Normative References.....	6
1.2.2	Informative References	8
1.3	Protocol Overview (Synopsis)	8
1.3.1	Web Drawing	8
1.3.2	Drawing Page	8
1.3.3	Shape	9
1.4	Relationship to Other Protocols.....	9
1.5	Prerequisites/Preconditions	9
1.6	Applicability Statement.....	9
1.7	Versioning and Capability Negotiation.....	9
1.8	Vendor-Extensible Fields.....	10
1.9	Standards Assignments	10
2	Messages.....	11
2.1	Transport.....	11
2.2	Common Message Syntax	11
2.2.1	Namespaces	11
2.2.2	Messages	12
2.2.3	Elements.....	12
2.2.4	Complex Types	12
2.2.4.1	AddonDataSource (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	13
2.2.4.2	ArrayOfAddonDataSource (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	14
2.2.4.3	BaseRequestContract (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	14
2.2.4.4	DiagramBase (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	15
2.2.4.5	VisioGraphicsServiceFault (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	15
2.2.5	Simple Types	16
2.2.5.1	FaultCode (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	16
2.2.6	Attributes.....	18
2.2.7	Groups.....	18
2.2.8	Attribute Groups	18
3	Protocol Details.....	19
3.1	Server Details	19
3.1.1	Abstract Data Model	19
3.1.2	Timers	19

3.1.3	Initialization	19
3.1.4	Message Processing Events and Sequencing Rules	19
3.1.4.1	GetRasterDiagram	20
3.1.4.1.1	Messages	20
3.1.4.1.1.1	IVisioGraphicsService_GetRasterDiagram_InputMessage	20
3.1.4.1.1.2	IVisioGraphicsService_GetRasterDiagram_OutputMessage	21
3.1.4.1.1.3	IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_Message	21
3.1.4.1.2	Elements	21
3.1.4.1.2.1	GetRasterDiagram	21
3.1.4.1.2.2	GetRasterDiagramResponse	21
3.1.4.1.3	Complex Types	22
3.1.4.1.3.1	RasterDiagramRequestContract (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	22
3.1.4.1.3.2	RasterDiagram (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	22
3.1.4.2	GetVectorDiagram	23
3.1.4.2.1	Messages	24
3.1.4.2.1.1	IVisioGraphicsService_GetVectorDiagram_InputMessage	24
3.1.4.2.1.2	IVisioGraphicsService_GetVectorDiagram_OutputMessage	24
3.1.4.2.1.3	IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_Message	24
3.1.4.2.2	Elements	25
3.1.4.2.2.1	GetVectorDiagram	25
3.1.4.2.2.2	GetVectorDiagramResponse	25
3.1.4.2.3	Complex Types	25
3.1.4.2.3.1	VectorDiagramRequestContract (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	25
3.1.4.2.3.2	VectorDiagram (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	26
3.1.4.2.3.3	RenderedPage (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	26
3.1.4.2.3.4	ArrayOfDiagramResource (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	27
3.1.4.2.3.5	DiagramResource (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	27
3.1.5	Timer Events	28
3.1.6	Other Local Events	28
3.2	Client Details	28
3.2.1	Abstract Data Model	28
3.2.2	Timers	28
3.2.3	Initialization	28
3.2.4	Message Processing Events and Sequencing Rules	28
3.2.5	Timer Events	28

3.2.6 Other Local Events	28
4 Protocol Examples	29
4.1 GetRasterDiagram	29
4.2 GetVectorDiagram	35
4.3 GetVectorDiagram with AddonDataSource	37
5 Security	54
5.1 Security Considerations for Implementers	54
5.2 Index of Security Parameters	54
6 Appendix A: Full WSDL	55
7 Appendix B: Product Behavior	61
8 Change Tracking	62
9 Index	65

1 Introduction

This document specifies the Visio Graphics Service Protocol. This protocol enables a protocol client to communicate with a protocol server to retrieve information about a [Web drawing](#) that is stored in a document repository.

1.1 Glossary

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

Coordinated Universal Time (UTC)
domain
GUID
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)

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

data connection
data provider
data source
endpoint
Extensible Application Markup Language (XAML)
font
fully qualified class name
list
Office data connection (ODC) file
Portable Network Graphics (PNG)
primary key
row
Simple Object Access Protocol (SOAP)
SOAP action
SOAP body
SOAP fault
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
view
Web Services Description Language (WSDL)
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.

[MS-DSDIFFGRAM] Microsoft Corporation, "[SharePoint Web Services: DataSet DiffGram Structure Specification](#)"

[MS-SLXV] Microsoft Corporation, "Silverlight XAML Vocabulary Specification 2008", October 2008, [Silverlight XAML Vocabulary Specification 2008](#)

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

[MS-VGSFF] Microsoft Corporation, "[Visio Graphics Service File Format \(.vdw\) Specification](#)"

[RFC1738] Berners-Lee, T., Masinter, L., and McCahill, M., "Uniform Resource Locators (URL)", RFC 1738, December 1994, <http://www.ietf.org/rfc/rfc1738.txt>

[RFC1980] Seidman, J., "A Proposed Extension to HTML : Client-Side Image Maps", RFC 1980, August 1996, <http://www.rfc-editor.org/rfc/rfc1980.txt>

[RFC2083] Boutell, T., "PNG (Portable Network Graphics) Specification Version 1.0", RFC 2083, March 1997, <http://www.ietf.org/rfc/rfc2083.txt>

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.ietf.org/rfc/rfc2616.txt>

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part1-20030624>

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part2-20030624>

[WSA1.0 Core] Gudgin, M., Ed., Hadley, M., Ed., and Rogers, Tony, Ed., "Web Services Addressing 1.0 - Core", W3C Recommendation 9 May 2006, <http://www.w3.org/TR/2006/REC-ws-addr-core-20060509/ws-addr-core.pdf>

[WSA1.0 Metadata] Gudgin, M., Ed., Hadley, M., Ed., Rogers, T., Ed., Yalcinalp, U., Ed., "Web Services Addressing 1.0 - Metadata", W3C Recommendation, September 2007, <http://www.w3.org/TR/2007/REC-ws-addr-metadata-20070904>

[WSA1.0] World Wide Web Consortium, "Web Services Addressing 1.0 - WSDL Binding", W3C Candidate Recommendation, May 2006, <http://www.w3.org/TR/2006/CR-ws-addr-wsdl-20060529/>

[WSAddressing] Box, D., Christensen, E., Ferguson, D., et al., "Web Services Addressing (WS-Addressing)", August 2004, <http://www.w3.org/Submission/ws-addressing/>

If you have any trouble finding [WSAddressing], please check [here](#).

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>

[WS-MetaDataExchange] Ballinger, K. et al., "Web Services Metadata Exchange (WS-MetadataExchange) Version 1.1", August 2006, <http://specs.xmlsoap.org/ws/2004/09/mex/WS-MetadataExchange.pdf>

[WS-Policy1.5] W3C, "Web Services Policy 1.5 - Framework", 04 September 2007, <http://www.w3.org/TR/ws-policy/ws-policy-framework.pdf>

[WSSE 1.0] Nadalin, A., Kaler, C., Hallam-Baker, P., and Monzillo, R., Eds., "Web Services Security: SOAP Message Security 1.0 (WS-Security 2004)", OASIS Standard 200401, March 2004, <http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0.pdf>

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

[XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

1.2.2 Informative References

[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](#)"

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, <http://www.ietf.org/rfc/rfc2818.txt>

1.3 Protocol Overview (Synopsis)

This protocol enables a protocol client to retrieve a [Web drawing](#). It enables a protocol client to request from a protocol server, a [drawing page](#) in a Web drawing, and to receive either a raster or vector formatted drawing page. A raster formatted drawing page is returned in the **Portable Network Graphics (PNG)** format as specified in [\[RFC2083\]](#). A vector formatted drawing page is returned in **XAML** as specified in [\[MS-SLXV\]](#).

A typical scenario for using this protocol is an application that retrieves and displays a Web drawing from a .vdw file stored in a document repository.

1.3.1 Web Drawing

A Web drawing is a collection of drawing pages, as specified in section [1.3.2](#), shapes, as specified in section [1.3.3](#), **fonts**, images, **data connections (2)**, and recalculation information that can be rendered as a raster or vector drawing.

A Web drawing is contained in a .vdw file that conforms to the format specified in [\[MS-VGSFF\]](#) section 2.2.1. The .vdw file is typically stored in a document repository.

1.3.2 Drawing Page

A drawing page is a collection of shapes, as specified in section [1.3.3](#), that are viewed together.

Drawing pages are specified in [\[MS-VGSFF\]](#) section 2.2.2.

1.3.3 Shape

A shape is a collection of geometry, text, images, hyperlinks, and data in a drawing page, as specified in section [1.3.2](#).

Shapes are specified in [\[MS-VGSFF\]](#) section 2.2.3.

1.4 Relationship to Other Protocols

This protocol uses the **Simple Object Access Protocol (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:

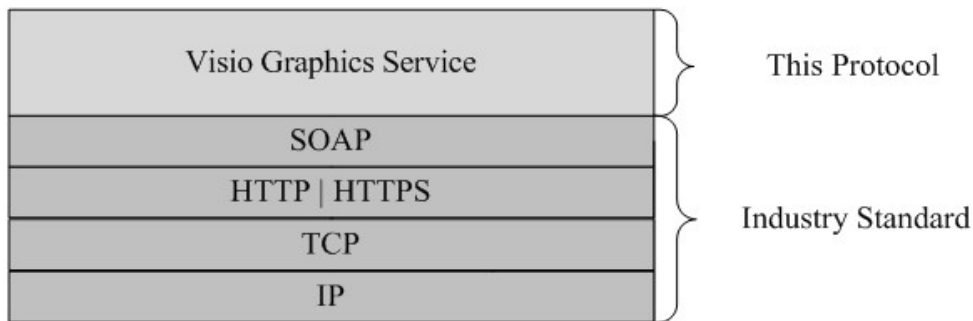


Figure 1: This protocol in relation to other protocols

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 designed to support retrieval of [Web drawings](#).

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 Simple Object Access Protocol (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**, **not null**, and **present**.

2.1 Transport

Protocol servers **MUST** support SOAP over Hypertext Transfer Protocol (HTTP) or Hypertext Transfer Protocol over Secure Sockets Layer (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 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 [\[MS-SPSTWS\]](#) section 2.2.4.1.

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 server, for example, the SOAP format over a HTTP transport.

2.2 Common Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses the XML Schema as defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and Web Services Description Language as defined in [\[WSDL\]](#).

2.2.1 Namespaces

This specification defines and references various XML namespaces using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific XML namespace prefix for 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
xsd	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
soapenc	http://schemas.xmlsoap.org/soap/encoding/	[SOAP1.2/1] [SOAP1.2/2]
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://tempuri.org/	

Prefix	Namespace URI	Reference
wsap	http://schemas.xmlsoap.org/ws/2004/08/addressing/policy	[WSAddressing]
msc	http://schemas.microsoft.com/ws/2005/12/wsd/contract	[WS-MetaDataExchange]
wsam	http://www.w3.org/2007/05/addressing/metadata	[WSA1.0 Metadata]
soap12	http://schemas.xmlsoap.org/wsd/soap12/	[SOAP1.2/1] [SOAP1.2/2]
wsa10	http://www.w3.org/2005/08/addressing	[WSA1.0 Core]
wsa	http://schemas.xmlsoap.org/ws/2004/08/addressing	[WSAddressing]
wsaw	http://www.w3.org/2006/05/addressing/wsd	[WSA1.0]
wSDL	http://schemas.xmlsoap.org/wsd/	[WSDL]
wsx	http://schemas.xmlsoap.org/ws/2004/09/mex	[WS-MetaDataExchange]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
wsu	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd	[WSSE 1.0]
wsp	http://www.w3.org/ns/ws-policy	[WS-Policy1.5]
q1	http://schemas.datacontract.org/2004/07/Microsoft.Office.Viso.Server.GraphicsServer	
q2	http://schemas.datacontract.org/2004/07/Microsoft.Office.Viso.Server.GraphicsServer	
q3	http://schemas.datacontract.org/2004/07/Microsoft.Office.Viso.Server.GraphicsServer	
q4	http://schemas.datacontract.org/2004/07/Microsoft.Office.Viso.Server.GraphicsServer	

2.2.2 Messages

None.

2.2.3 Elements

None.

2.2.4 Complex Types

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
AddonDataSource	A complex type used to specify a data provider implemented by a protocol client and used in the Web drawing .
ArrayOfAddonDataSource	An array of AddonDataSource elements.
BaseRequestContract	A complex type used to specify a request message for all protocol server operations.
DiagramBase	A complex type used to specify a response message for all protocol server operations.
VisioGraphicsServiceFault	A complex type used to specify an error that occurs during a protocol operation.

2.2.4.1 AddonDataSource (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **AddonDataSource** complex type contains information about a data provider implemented by a protocol client and used in a [Web drawing](#).

```
<xs:complexType name="AddonDataSource">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConnectionString" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Data" nillable="true">
      <xs:complexType>
        <xs:annotation>
          <xs:appinfo>
            <ActualType Name="DataSet"
              Namespace="http://schemas.datacontract.org/2004/07/System.Data"
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
          </xs:appinfo>
        </xs:annotation>
        <xs:sequence>
          <xs:element ref="xs:schema"/>
          <xs:any/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
    <xs:element minOccurs="0" name="QueryString" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

ConnectionString: A string that specifies arguments which define the location of the data provider and how to connect to it. There **MUST** be exactly one instance of this element and it **MUST NOT** be null. **MUST** contain a **fully qualified class name** of the data provider.

Data: Specifies the data retrieved from the data provider. **MUST** be encoded in the DiffGram [\[MS-DSDIFFGRAM\]](#) format. This element **MUST NOT** be null.

xs:schema: Specifies the schema for the Data element. This element can be null.

Id: An integer that specifies the identifier of this **AddonDataSource**. MUST be greater than or equal to zero and MUST be unique across all the AddonDataSource elements in the containing [ArrayOfAddonDataSource](#) array. There MUST be exactly one instance of this element.

QueryString: A string that specifies information used to call and retrieve data from the data provider. There MUST be exactly one instance of this element and it MUST NOT be null.

2.2.4.2 ArrayOfAddonDataSource (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **ArrayOfAddonDataSource** complex type contains an array of [AddonDataSource](#) elements.

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

AddonDataSource: Specifies an AddonDataSource element. This element MUST NOT be null.

2.2.4.3 BaseRequestContract (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **BaseRequestContract** complex type contains information used to specify the request parameters for all protocol server operations.

```
<xs:complexType name="BaseRequestContract">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
      type="tns:ArrayOfAddonDataSource"/>
    <xs:element minOccurs="0" name="DisableRefresh" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FileUri" nillable="true" type="xs:anyURI"/>
    <xs:element minOccurs="0" name="PageNumber" type="xs:int"/>
    <xs:element minOccurs="0" name="TimeLastModified" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

DataSources: An [ArrayOfAddonDataSource](#) that specifies the data providers implemented by a protocol client and used in the [Web drawing](#). MUST have zero elements if there are no data providers. If **DataSources** is not empty, then the **Data** field of each [AddonDataSource](#) element MUST NOT be null.

DisableRefresh: A Boolean that specifies whether the requested [drawing page](#) is refreshed by the protocol server. A value of "true" indicates that the returned drawing page is not refreshed; a value of "false" indicates that the returned drawing page is refreshed. There MUST be exactly one instance of this element.

FileUri: An anyURI that specifies the **URL** of the .vdw file in a document repository that contains the Web drawing being requested. There MUST be exactly one instance of this element and it MUST NOT be null.

PageNumber: An integer that specifies the one-based index of a drawing page in the Web drawing. MUST be greater than zero and less than or equal to the total number of drawing pages in the requested Web drawing. There MUST be exactly one instance of this element.

TimeLastModified: An optional **dateTime** element that specifies the date and time, in **Coordinated Universal Time (UTC)** format, when the .vdw file was last modified in the document repository. There MUST be zero or exactly one instance of this element.

2.2.4.4 DiagramBase (from namespace

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **DiagramBase** complex type contains information used to specify response data for all protocol server operations.

```
<xs:complexType name="DiagramBase">
  <xs:sequence>
    <xs:element minOccurs="0" name="CacheAge" type="xs:int"/>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource"/>
  </xs:sequence>
</xs:complexType>
```

CacheAge: An integer that specifies the duration in minutes for which the processed [drawing page](#) is cached in memory by the protocol server. MUST be greater than zero. There MUST be exactly one instance of this element.

DataSources: An [ArrayOfAddonDataSource](#) that specifies the data providers implemented by a protocol client and used in the [Web drawing](#). MUST have zero elements if there are no data providers. If not empty, then the **Data** field of each contained [AddonDataSource](#) element MUST NOT be empty.

2.2.4.5 VisioGraphicsServiceFault (from namespace

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **VisioGraphicsServiceFault** complex type contains information about errors that occur during protocol server operations.

```
<xs:complexType name="VisioGraphicsServiceFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="Details" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Error" type="tns:FaultCode"/>
    <xs:element minOccurs="0" name="Flags" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

Details: A string that specifies a detailed description of the error. There MUST be exactly one instance of this element and it MUST NOT be NULL.

Error: A [FaultCode](#) that specifies the type of error. There MUST be exactly one instance of this element.

Flags: An integer that specifies additional information related to the **FaultCode**. A nonzero value indicates an error occurred during mapping of **rows (2)** of data to [shapes](#) when processing the request for a [drawing page](#). There MUST be exactly one instance of this element. The value MUST be "0x00000000" if **FaultCode** is not equal to **DataBindingConflict**. If **FaultCode** is equal to **DataBindingConflict**, the value MUST be "0x40000000", which indicates a generic data binding failure, or a bitwise OR combination of one or more of the following values:

Value	Description
0x00000001	A column was deleted in the data source (1) .
0x00000002	A column's data type was changed in the data source (1).
0x00000004	A row (2) was deleted in the data source (1).
0x00000008	A duplicate row (2) was found in the data source (1).
0x00000010	A primary key column was deleted in the data source (1).

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
FaultCode	A simple type used to specify a specific error that occurs during a protocol operation.

2.2.5.1 FaultCode (from namespace

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **FaultCode** simple type contains information about a specific error that occurs during a protocol operation. MUST be a value from the following table:

```
<xs:simpleType name="FaultCode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DataConnectivityError"/>
    <xs:enumeration value="EmptyRasterDiagramRequest"/>
    <xs:enumeration value="EmptyVectorDiagramRequest"/>
    <xs:enumeration value="OfficeDataConnectionFileNotFound"/>
    <xs:enumeration value="OfficeDataConnectionFileRetrievalError"/>
    <xs:enumeration value="OfficeDataConnectionFileAccessDenied"/>
    <xs:enumeration value="IncompatibleDomain"/>
    <xs:enumeration value="WssViewAccessDenied"/>
    <xs:enumeration value="WssListAccessDenied"/>
    <xs:enumeration value="InvalidPageNumber"/>
    <xs:enumeration value="InvalidResolution"/>
    <xs:enumeration value="InvalidFileUrl"/>
    <xs:enumeration value="RasterizationError"/>
    <xs:enumeration value="InvalidFileExtension"/>
    <xs:enumeration value="EmptyServerData"/>
    <xs:enumeration value="OpenServerFileFailed"/>
    <xs:enumeration value="NoReadPermissionToFile"/>
    <xs:enumeration value="KeyNotFoundFromCollection"/>
  </xs:restriction>
</xs:simpleType>
```



```

<xs:enumeration value="ExceededMaxDiagramSize"/>
<xs:enumeration value="IncompatibleVersion"/>
<xs:enumeration value="DataProviderNotTrusted"/>
<xs:enumeration value="DataBindingConflict"/>
<xs:enumeration value="UnableToGetExternalDataSourceCredentials"/>
<xs:enumeration value="UnattendedAccountTypeMismatch"/>
<xs:enumeration value="RecalcTimedOut"/>
<xs:enumeration value="LicenseExpired"/>
</xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for FaultCode:

Value	Meaning
DataConnectivityError	An error occurred while trying to connect to data sources specified in the document.
EmptyRasterDiagramRequest	An internal error occurred.
EmptyVectorDiagramRequest	An internal error occurred.
OfficeDataConnectionFileNotFound	The Office data connection (ODC) file specified in the document could not be found.
OfficeDataConnectionFileRetrievalError	The Office data connection (ODC) file URL specified in the document is not a well formed URL as specified in [RFC1738] .
OfficeDataConnectionFileAccessDenied	Access to the Office data connection (ODC) file specified in the document was denied.
IncompatibleDomain	The specified document is referring to a list (1) data source that is not in a compatible domain .
WssViewAccessDenied	The user does not have permissions to the view used as external data source by the web drawing.
WssListAccessDenied	The user does not have permissions to the list (1) used as external data source by the web drawing.
InvalidPageNumber	The PageNumber specified in BaseRequestContract is less than 1.
InvalidResolution	The Resolution specified in RasterDiagramRequestContract is invalid.
InvalidFileUrl	Unused and MUST be ignored.
RasterizationError	An error occurred during rasterization of the document.
InvalidFileExtension	The FileUri specified in BaseRequestContract does not refer to a file with a valid extension.
EmptyServerData	The data in the document is empty or invalid.
OpenServerFileFailed	The document could not be opened.
NoReadPermissionToFile	Access to the document was denied.

Value	Meaning
KeyNotFoundFromCollection	The names of drawing pages cannot be retrieved from the document.
ExceededMaxDiagramSize	The document size exceeded the limit configured by the service administrator.
IncompatibleVersion	The document version is incompatible with the server.
DataProviderNotTrusted	The document requires a connection to data provider(s) that are not allowed by the service administrator.
DataBindingConflict	Unable to update the graphical elements that are mapped to data.
UnableToGetExternalDataSourceCredentials	Credentials required to connect to data sources specified in the document could not be retrieved.
UnattendedAccountTypeMismatch	The default credentials used for connecting to data sources are of invalid type.
RecalcTimedOut	The document recalculation duration exceeded the limit configured by the service administrator.
LicenseExpired	Visio Graphics Service license has expired.

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**, **not null**, and **present**.

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 **MUST** interpret HTTP status codes returned by the protocol server as specified in [\[RFC2616\]](#) (Section 10, Status Code Definitions).

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

3.1 Server Details

This protocol is based on stateless interaction between the client and server. The protocol server returns the requested [drawing page](#) of the [Web drawing](#). There are no dependencies between instances of client and server interaction.

3.1.1 Abstract Data Model

None.

3.1.2 Timers

The **Recalculation Timeout** timer measures the time it takes for the protocol server to recalculate the drawing page, as specified in section [1.3.2](#), of the Web drawing, as specified in section [1.3.1](#). This timeout is configured on the protocol server.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The protocol server operations are stateless. These operations can be executed in any order.

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

WSDL Operation	Description
GetRasterDiagram	This operation retrieves a drawing page from the Web drawing rendered in a raster format.

WSDL Operation	Description
GetVectorDiagram	This operation retrieves a drawing page from the Web drawing rendered in a vector format.

3.1.4.1 GetRasterDiagram

This operation retrieves a [drawing page](#) from the [Web drawing](#) rendered in a raster format.

```
<wsdl:operation name="GetRasterDiagram">
  <wsdl:input wsam:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagram"
    message="tns:IVisioGraphicsService_GetRasterDiagram_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramResponse"
    message="tns:IVisioGraphicsService_GetRasterDiagram_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramVisioGraphicsServiceFaultFault"
    name="VisioGraphicsServiceFaultFault"
    message="tns:IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **IVisioGraphicsService_GetRasterDiagram_InputMessage** request WSDL message and the protocol server MUST respond with a **IVisioGraphicsService_GetRasterDiagram_OutputMessage** response WSDL message, as follows:

1. If the protocol server determines that an error occurred during the protocol server operation, the protocol server MUST respond with a [VisioGraphicsServiceFault](#) SOAP fault with the **Error** field set to the appropriate [FaultCode](#) and return.
2. Otherwise, the protocol server MUST return a [RasterDiagram](#).

If the requested drawing page contains data providers to be implemented by the protocol client, the following sequence of messages MUST be followed:

1. The protocol server MUST respond with a **IVisioGraphicsService_GetRasterDiagram_OutputMessage** response WSDL message. The data providers MUST be specified in the **DataSources** element of the RasterDiagram contained within this response. The **Image** element of this RasterDiagram MUST be null.
2. The protocol client MUST retrieve the data from the data providers and send another **IVisioGraphicsService_GetRasterDiagram_InputMessage** request WSDL message. This request MUST be identical to the original request except that the **DataSources** element of the [RasterDiagramRequestContract](#) MUST NOT be null.
3. The protocol server MUST respond with a **IVisioGraphicsService_GetRasterDiagram_OutputMessage** response WSDL message. If no errors occurred, the response MUST contain a RasterDiagram and the **Image** element of the RasterDiagram MUST NOT be null.

3.1.4.1.1 Messages

3.1.4.1.1.1 IVisioGraphicsService_GetRasterDiagram_InputMessage

The requested WSDL message for the **GetRasterDiagram** WSDL operation.

The **SOAP action** value is:

```
http://tempuri.org/IVisioGraphicsService/GetRasterDiagram
```

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

3.1.4.1.1.2 IVisioGraphicsService_GetRasterDiagram_OutputMessage

The response WSDL message for the **GetRasterDiagram** method.

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/GetRasterDiagramResponse
```

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

3.1.4.1.1.3

IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_FaultMessage

The response WSDL message for the **GetRasterDiagram** method.

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/GetRasterDiagramVisioGraphicsServiceFaultFault
```

The SOAP body contains a **VisioGraphicsServiceFault** element.

3.1.4.1.2 Elements

3.1.4.1.2.1 GetRasterDiagram

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

```
<xs:element name="GetRasterDiagram">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="rasterDiagramRequestContract" nillable="true"
        xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsService" type="q1:RasterDiagramRequestContract"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rasterDiagramRequestContract: The request parameters for a **GetRasterDiagram** WSDL operation. There MUST be exactly one instance of this element.

3.1.4.1.2.2 GetRasterDiagramResponse

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

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

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="GetRasterDiagramResult" nillable="true"
      xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
      r" type="q2:RasterDiagram"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

GetRasterDiagramResult: The results for a **GetRasterDiagram** WSDL operation. There MUST be exactly one instance of this element.

3.1.4.1.3 Complex Types

3.1.4.1.3.1 RasterDiagramRequestContract (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **RasterDiagramRequestContract** complex type contains information used to specify the request parameters for a **GetRasterDiagram** WSDL operation. This complex type inherits from [BaseRequestContract](#) which specifies additional parameters.

```

<xs:complexType name="RasterDiagramRequestContract">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestContract">
      <xs:sequence>
        <xs:element minOccurs="0" name="Resolution" type="xs:int"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

Resolution: An integer that is unused and MUST be set to 1 or 2. Client MUST ignore it, if receiving an element of this type.

3.1.4.1.3.2 RasterDiagram (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **RasterDiagram** complex type contains information used to specify the response for a **GetRasterDiagram** WSDL operation. This complex type inherits from **DiagramBase**, as specified in section [2.2.4.4](#), which specifies additional parameters.

```

<xs:complexType name="RasterDiagram">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="AreaMaps" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="Image" nillable="true" type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```

</xs:complexType>

AreaMaps: A string that specifies the geometric outline information of the shapes, as specified in section 1.3.3, in the raster image,. The format of this data is specified in [RFC1980](#). There MUST be exactly one instance of this element.

Image: A **base64Binary** that specifies the drawing page, as specified in section 1.3.2, as a raster image in PNG format, as specified in [RFC2083](#). There MUST be exactly one instance of this element.

ShapeInfo: A **string** that specifies information about the shapes, as specified in section 1.3.3, in the drawing page, as specified in section 1.3.2. The syntax of this element is specified in [MS-VGSFF](#) section 2.4.8. The syntax of this element is also specified by additional attributes of the **CT_Page** element, as specified in [MS-VGSFF](#) section 2.4.8.2.8, that are listed in the following table.

Attribute of CT_Page element	Description
Conflict	An integer that specifies the status of retrieving data from data providers for the drawing page . The value MUST be zero.
DocumentID	A string that specifies a GUID that identifies the .vdw file in a document repository that contains the Web drawing , as specified in section 1.3.1, being requested.
DocumentTimeStamp	A dateTime value that specifies the date and time, in Coordinated Universal Time (UTC) format, when the .vdw file was last modified in the document repository.
RefreshWarning	An optional integer that specifies whether data should not be retrieved from data providers. A value of "1" indicates that data connections (2) exist for the drawing page but that the data should not be retrieved from the data providers associated with these data connections (2).

There MUST be exactly one instance of this element.

3.1.4.2 GetVectorDiagram

This operation retrieves a [drawing page](#) from the [Web drawing](#) rendered in a vector format.

```
<wsdl:operation name="GetVectorDiagram">
  <wsdl:input wsam:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagram"
    message="tns:IVisioGraphicsService_GetVectorDiagram_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse"
    message="tns:IVisioGraphicsService_GetVectorDiagram_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramVisioGraphicsServiceFaultFault"
    name="VisioGraphicsServiceFaultFault"
    message="tns:IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends a **IVisioGraphicsService_GetVectorDiagram_InputMessage** request WSDL message and the protocol server MUST respond with a

IVisioGraphicsService_GetVectorDiagram_OutputMessage response WSDL message, as follows:

1. If the protocol server determines that an error occurred during the protocol server operation, the protocol server MUST respond with a [VisioGraphicsServiceFault](#) SOAP fault with the **Error** field set to the appropriate [FaultCode](#) and return.
2. Otherwise, the protocol server MUST return a [VectorDiagram](#).

If the requested drawing page contains data providers to be implemented by the protocol client, the following sequence of messages MUST be followed:

1. The protocol server MUST respond with a **IVisioGraphicsService_GetVectorDiagram_OutputMessage** response WSDL message. The data providers MUST be specified in the **DataSources** element of the VectorDiagram contained within this response. The **OutputPage** element of this VectorDiagram MUST be null.
2. The protocol client MUST retrieve the data from the data providers and send another **IVisioGraphicsService_GetVectorDiagram_InputMessage** request WSDL message. This request MUST be identical to the original request except that the **DataSources** element of the [VectorDiagramRequestContract](#) MUST NOT be null.
3. The protocol server MUST respond with a **IVisioGraphicsService_GetVectorDiagram_OutputMessage** response WSDL message. If no errors occurred, the response MUST contain a VectorDiagram and the **OutputPage** element of the VectorDiagram MUST NOT be null.

3.1.4.2.1 Messages

3.1.4.2.1.1 IVisioGraphicsService_GetVectorDiagram_InputMessage

The requested WSDL message for the **GetVectorDiagram** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/GetVectorDiagram
```

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

3.1.4.2.1.2 IVisioGraphicsService_GetVectorDiagram_OutputMessage

The response WSDL message for the **GetVectorDiagram** method.

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse
```

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

3.1.4.2.1.3

IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMessage

The response WSDL message for the **GetVectorDiagram** method.

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/GetVectorDiagramVisioGraphicsServiceFaultFault
```

The SOAP body contains a **VisioGraphicsServiceFault** element.

3.1.4.2.2 Elements

3.1.4.2.2.1 GetVectorDiagram

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

```
<xs:element name="GetVectorDiagram">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="vectorDiagramRequest" nillable="true"
        xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
        r" type="q3:VectorDiagramRequestContract"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

vectorDiagramRequest: The request parameters for a **GetVectorDiagram** WSDL operation. There MUST be exactly one instance of this element and it MUST NOT be null.

3.1.4.2.2.2 GetVectorDiagramResponse

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

```
<xs:element name="GetVectorDiagramResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetVectorDiagramResult" nillable="true"
        xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
        r" type="q4:VectorDiagram"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetVectorDiagramResult: The results for a **GetVectorDiagram** WSDL operation. There MUST be exactly one instance of this element and it MUST NOT be null.

3.1.4.2.3 Complex Types

3.1.4.2.3.1 VectorDiagramRequestContract (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsService>)

The **VectorDiagramRequestContract** complex type contains information used to specify the request parameters for a **GetVectorDiagram** WSDL operation. This complex type inherits from [BaseRequestContract](#) which specifies additional parameters.

```
<xs:complexType name="VectorDiagramRequestContract">
```

```

<xs:complexContent mixed="false">
  <xs:extension base="tns:BaseRequestContract">
    <xs:sequence/>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

3.1.4.2.3.2 VectorDiagram (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicSServer>)

The **VectorDiagram** complex type contains information used to specify the response for a **GetVectorDiagram** WSDL operation. This complex type inherits from [DiagramBase](#) which specifies additional parameters.

```

<xs:complexType name="VectorDiagram">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="OutputPage" nillable="true" type="tns:RenderedPage"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

OutputPage: A [RenderedPage](#) that specifies the [drawing page](#) in vector format.

3.1.4.2.3.3 RenderedPage (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicSServer>)

The **RenderedPage** complex type contains information that specifies a drawing page, as specified in section [1.3.2](#), in a vector format.

```

<xs:complexType name="RenderedPage">
  <xs:sequence>
    <xs:element minOccurs="0" name="Resources" nillable="true"
type="tns:ArrayOfDiagramResource"/>
    <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Xaml" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

Resources: An **ArrayOfDiagramResource**, as specified in section [3.1.4.2.3.4](#), that specifies all the resources used by the **Xaml** field. There MUST be exactly one instance of this element and it MUST NOT be NULL.

ShapeInfo: A **string** that specifies information about the shapes, as specified in section [1.3.3](#), in the drawing page, as specified in section [1.3.2](#). The syntax of this element is specified in [\[MS-VGSFF\]](#) section 2.4.8. The syntax of this element is also specified by additional attributes of the **CT_Page** element, as specified in [\[MS-VGSFF\]](#) section 2.4.8.2.8, that are listed in the following table.

Attribute of CT_Page element	Description
Conflict	An integer that specifies the status of retrieving data from data providers for the drawing page, as specified in section 1.3.2 . The value MUST be zero.
DocumentID	A string that specifies a GUID that identifies the .vdw file in a document repository that contains the Web drawing, as specified in section 1.3.1 , being requested.
DocumentTimeStamp	A dateTime value that specifies the date and time, in Coordinated Universal Time (UTC) format, when the .vdw file was last modified in the document repository.
RefreshWarning	An optional integer that specifies whether data should not be retrieved from data providers. A value of "1" indicates that data connections (2) exist for the drawing page, as specified in section 1.3.2 , but that the data should not be retrieved from the data providers associated with these data connections (2).

There MUST be exactly one instance of this element and it MUST NOT be NULL.

Xaml: A **string** that specifies the vector drawing page, as specified in section [1.3.2](#), in XAML format, as specified in [\[MS-SLXV\]](#). There MUST be exactly one instance of this element and it MUST NOT be NULL.

3.1.4.2.3.4 ArrayOfDiagramResource (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **ArrayOfDiagramResource** complex type contains an array of [DiagramResource](#) elements.

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

DiagramResource: A [DiagramResource](#) element that specifies the fonts and images. It MUST NOT be null.

3.1.4.2.3.5 DiagramResource (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>)

The **DiagramResource** complex type contains information that specifies either a font or an image required by a [drawing page](#).

```
<xs:complexType name="DiagramResource">
  <xs:sequence>
    <xs:element minOccurs="0" name="ByteData" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

ByteData: A base64Binary that specifies the resource in the format of a stream of bytes. There MUST be exactly one instance of this element and it MUST NOT be null.

Name: A string that specifies the name for the resource as referenced by the **Xaml** field of the [RenderedPage](#). MUST refer to either a font as specified in [\[MS-VGSFF\]](#) section 2.1.6.2 or an image as a specified in [\[MS-VGSFF\]](#) section 2.1.6.3. There MUST be exactly one instance of this element and it MUST NOT be null.

3.1.5 Timer Events

The **Recalculation Timeout** timer event cancels the request for the drawing page, as specified in section [1.3.2](#), with a **VisioGraphicsServiceFault**, as specified in section [2.2.4.5](#). The **Error** field of **VisioGraphicsServiceFault** MUST be set to "RecalcTimedOut" **FaultCode**, as specified in section [2.2.5.1](#).

3.1.6 Other Local Events

None.

3.2 Client Details

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.

3.2.1 Abstract Data Model

None.

3.2.2 Timers

None.

3.2.3 Initialization

None.

3.2.4 Message Processing Events and Sequencing Rules

None.

3.2.5 Timer Events

None.

3.2.6 Other Local Events

None.

4 Protocol Examples

The following subsections contain examples of this protocol's usage.

4.1 GetRasterDiagram

In this scenario, the protocol client calls the [GetRasterDiagram](#) method on a protocol server named "ExampleServer". The protocol server responds with a [GetRasterDiagramResponse](#). In this case the [drawing page](#) does not contain data providers to be implemented by the protocol client.

To request the raster formatted drawing page, the protocol client constructs the following WSDL message:

```
<s:Envelope>
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetRasterDiagram</a:Action>
    <a:MessageID>urn:uuid:891be72c-aaaf-473a-a4f8-82c3da217414</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">https://ExampleServer:
32844/69e08a7b0e904d1a95de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security>.....</o:Security>
  </s:Header>
  <s:Body>
    <GetRasterDiagram>
      <rasterDiagramRequest>
        <b:DataSources i:nil="true"/>
        <b:DisableRefresh>true</b:DisableRefresh>
        <b:FileUri>http://ExampleServer/BasicDiagram.vdw</b:FileUri>
        <b:PageNumber>1</b:PageNumber>
        <b:TimeLastModified>2009-05-20T17:42:20</b:TimeLastModified>
        <b:Resolution>1</b:Resolution>
      </rasterDiagramRequest>
    </GetRasterDiagram>
  </s:Body>
</s:Envelope>
```

The protocol server then responds with the following:

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetRasterDiagramResponse</a:Act
ion>
  </s:Header>
  <s:Body>
    <GetRasterDiagramResponse xmlns="http://tempuri.org/">
      <GetRasterDiagramResult
xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsSer
ver" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4p1:CacheAge>60</d4p1:CacheAge>
        <d4p1:DataSources i:nil="true"></d4p1:DataSources>
        <d4p1:AreaMaps>
          <Page>
```


UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVVxcIEEwsGJIjEnhIwM55aJiuQoDAqIAAM8qv+aSAX8Skvt4
E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBPwM65N3M3JkCgRkCAqXH1
1QUCHhMLhuSIBB4SsHMeGqarECAwKiDAjPJrPingMTGprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkICd89AwX
YUAgVEBAWauX/NJAY+JSX29CdwTshPuzdyNCRCoERBgAlx9dYGAX8SCITkigYcE7JyHhukqBAiMCggwo/yaTwp4TEzq60
3gnoCdc2/mbkyAQI2AAFPj6qsLBDwmFgzJEQk8JGDNpDRMVyFAYFRAgBn113xSwGniU19vAvce7Jx7M3djAgRqBASyGld
fXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIEe5P6eh04J2Dn3Ju5GxMgUCMgWNS4+uoCAY+JBUNYRAIPcdg5Dw3T
VQgQGBUQYeb5Nz8U8JiY1NebwD0BO+fezN2YAIeAaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pIDHxKS+3
gTuCd9592buxgQI1AgIMDWuvrpAwGniwZackcBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBGQICp
cfXVBQIEEwuG5IgEhhKwcx4apqsQIDAqIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYMcRHJPCqGJ3z0DB
dhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKqREGBqXH11gYDHxIhOSKBhwTsnIEG6SoECIwKCDCj/JpPCnhMTOr
TeCegJ1zb+ZuTIBajYAAU+PqqsEPCYWDmKRCtWkYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGoEBJgaV
19dIOAxsWBIjKjgIQE756FhugoBAqMCAswov+aTAh4Tk/p6E7gnYOfcm7kbEyBQIyDA1Lj66gIBj4kFQ3JEAg8J2DkPDD
NVCBAYFRBgRvklxTwmJjU15vAPQE7597M3ZgAgRoBaabG1VcXCHhMLBiSIXJ4SMD0eWiYrkKAWKiAADPKr/mkgMfEpL7
eBO4J2Dn3Zu7GBAjUCAgwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRgBQSYUX7NJwU8Jib19SzwT8D0uTdzNyZaOEZAgKl
9dUFAh4TC4bkiAQeErBzHhmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJecK8JcAnfPQM
F2FAIFRAQFmLF/zSQGPiU19vQncE7Bz7s3cjQkQqBEQYgpcfXWBGMfEgiE5IoGHBOych4bpKgQIjAoIMKP8mk8KeExM6u
tN4J6AnXNv5m5MgECNgABT4+qrCwQ8JhYMyREJPCRG5zw0TFchQGBUQIAZ5dd8UsBjY1JfbwL3BOycezN3YwIEagQEMbP
XX10g4DGxYEi0SOAhATvnoWG6CgECowICzCi/5pMCHhOT+noTuCd959ybuRsTIFAjIMDUuPrqAgGPiQVDCkQCDwnYQ
08N01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVVxcIEEwsGJIjEnhIwM55aJiuQoDAqIAAM8qv+aSAX8Skv
t4E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBPwM65N3M3JkCgRkCAqX
H11QUCHhMLhuSIBB4SsHMeGqarECAwKiDAjPJrPingMTGprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkICd89A
wXYUAgVEBAWauX/NJAY+JSX29CdwTshPuzdyNCRCoERBgAlx9dYGAX8SCITkigYcE7JyHhukqBAiMCggwo/yaTwp4TEzq
603gnoCdc2/mbkyAQI2AAFPj6qsLBDwmFgzJEQk8JGDNpDRMVyFAYFRAgBn113xSwGniU19vAvce7Jx7M3djAgRqBASyG
ldfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIEe5P6eh04J2Dn3Ju5GxMgUCMgWNS4+uoCAY+JBUNYRAIPcdg5Dw
3TVQgQGBUQYeb5Nz8U8JiY1NebwD0BO+fezN2YAIeAaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pIDHxKS
+3gTuCd9592buxgQI1AgIMDWuvrpAwGniwZackcBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBGQICp
cfXVBQIEEwuG5IgEhhKwcx4apqsQIDAqIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYMcRHJPCqGJ3z0
DBdhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKqREGBqXH11gYDHxIhOSKBhwTsnIEG6SoECIwKCDCj/JpPCnhMTOr
rrTeCegJ1zb+ZuTIBajYAAU+PqqsEPCYWDmKRCtWkYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGoEBJg
aV19dIOAxsWBIjKjgIQE756FhugoBAqMCAswov+aTAh4Tk/p6E7gnYOfcm7kbEyBQIyDA1Lj66gIBj4kFQ3JEAg8J2DkP
DDNVCBAYFRBgRvklxTwmJjU15vAPQE7597M3ZgAgRoBaabG1VcXCHhMLBiSIXJ4SMD0eWiYrkKAWKiAADPKr/mkgMfEp
L7eBO4J2Dn3Zu7GBAjUCAgwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRgBQSYUX7NJwU8Jib19SzwT8D0uTdzNyZaOEZAgKl
1x9dUFAh4TC4bkiAQeErBzHhmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJecK8JcAnfP
QMf2FAIFRAQFmLF/zSQGPiU19vQncE7Bz7s3cjQkQqBEQYgpcfXWBGMfEgiE5IoGHBOych4bpKgQIjAoIMKP8mk8KeExM
6utN4J6AnXNv5m5MgECNgABT4+qrCwQ8JhYMyREJPCRG5zw0TFchQGBUQIAZ5dd8UsBjY1JfbwL3BOycezN3YwIEagQEM
bPXX10g4DGxYEi0SOAhATvnoWG6CgECowICzCi/5pMCHhOT+noTuCd959ybuRsTIFAjIMDUuPrqAgGPiQVDCkQCDwnYQ
08N01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVVxcIEEwsGJIjEnhIwM55aJiuQoDAqIAAM8qv+aSAX8Sk
vt4E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBPwM65N3M3JkCgRkCA
qXH11QUCHhMLhuSIBB4SsHMeGqarECAwKiDAjPJrPingMTGprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkICd8
9AwXYUAgVEBAWauX/NJAY+JSX29CdwTshPuzdyNCRCoERBgAlx9dYGAX8SCITkigYcE7JyHhukqBAiMCggwo/yaTwp4TE
zq603gnoCdc2/mbkyAQI2AAFPj6qsLBDwmFgzJEQk8JGDNpDRMVyFAYFRAgBn113xSwGniU19vAvce7Jx7M3djAgRqBAS
yGldfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIEe5P6eh04J2Dn3Ju5GxMgUCMgWNS4+uoCAY+JBUNYRAIPcdg5
Dw3TVQgQGBUQYeb5Nz8U8JiY1NebwD0BO+fezN2YAIeAaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pIDHx
KS+3gTuCd9592buxgQI1AgIMDWuvrpAwGniwZackcBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBGQIC
pCfXVBQIEEwuG5IgEhhKwcx4apqsQIDAqIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYMcRHJPCqGJ3
z0DBdhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKqREGBqXH11gYDHxIhOSKBhwTsnIEG6SoECIwKCDCj/JpPCnhMT
OrTeCegJ1zb+ZuTIBajYAAU+PqqsEPCYWDmKRCtWkYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGoEB
JgaV19dIOAxsWBIjKjgIQE756FhugoBAqMCAswov+aTAh4Tk/p6E7gnYOfcm7kbEyBQIyDA1Lj66gIBj4kFQ3JEAg8J2D
kPDDNVCBAYFRBgRvklxTwmJjU15vAPQE7597M3ZgAgRoBaabG1VcXCHhMLBiSIXJ4SMD0eWiYrkKAWKiAADPKr/mkgMf
EpL7eBO4J2Dn3Zu7GBAjUCAgwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRgBQSYUX7NJwU8Jib19SzwT8D0uTdzNyZaOEZAg
KlX9dUFAh4TC4bkiAQeErBzHhmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJecK8JcAn
fPQMf2FAIFRAQFmLF/zSQGPiU19vQncE7Bz7s3cjQkQqBEQYgpcfXWBGMfEgiE5IoGHBOych4bpKgQIjAoIMKP8mk8KeE
xM6utN4J6AnXNv5m5MgECNgABT4+qrCwQ8JhYMyREJPCRG5zw0TFchQGBUQIAZ5dd8UsBjY1JfbwL3BOycezN3YwIEagQ
EMbPXX10g4DGxYEi0SOAhATvnoWG6CgECowICzCi/5pMCHhOT+noTuCd959ybuRsTIFAjIMDUuPrqAgGPiQVDCkQCDwnY
Q08N01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVVxcIEEwsGJIjEnhIwM55aJiuQoDAqIAAM8qv+aSAX
8Skvt4E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBPwM65N3M3JkCgRk
CAqXH11QUCHhMLhuSIBB4SsHMeGqarECAwKiDAjPJrPingMTGprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkIC
d89AwXYUAgVEBAWauX/NJAY+JSX29CdwTshPuzdyNCRCoERBgAlx9dYGAX8SCITkigYcE7JyHhukqBAiMCggwo/yaTwp4
TEzq603gnoCdc2/mbkyAQI2AAFPj6qsLBDwmFgzJEQk8JGDNpDRMVyFAYFRAgBn113xSwGniU19vAvce7Jx7M3djAgRqB
ASYGldfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIEe5P6eh04J2Dn3Ju5GxMgUCMgWNS4+uoCAY+JBUNYRAIPcd
g5Dw3TVQgQGBUQYeb5Nz8U8JiY1NebwD0BO+fezN2YAIeAaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pID
HxKS+3gTuCd9592buxgQI1AgIMDWuvrpAwGniwZackcBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBG
QICpCfXVBQIEEwuG5IgEhhKwcx4apqsQIDAqIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYMcRHJPCqG
J3z0DBdhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKqREGBqXH11gYDHxIhOSKBhwTsnIEG6SoECIwKCDCj/JpPCn
hMTOrTeCegJ1zb+ZuTIBajYAAU+PqqsEPCYWDmKRCtWkYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGo
EBJgaV19dIOAxsWBIjKjgIQE756FhugoBAqMCAswov+aTAh4Tk/p6E7gnYOfcm7kbEyBQIyDA1Lj66gIBj4kFQ3JEAg8J

2DkPddNVCBAYFRBgRvk1nxTwmJjU15vAPQE7597M3ZgAgRoBAabG1VcXCHhMLBiSIXJ4SMD0eWiYrkKAwKiAADPKr/mkg
MfEpL7eBO4J2Dn3Zu7GBAJUCAGwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRGBQSYUX7NjWU8Jib19SzwT8D0utDzNyZAoe
ZAgKlX9dUFah4Tc4bkiAQeErBzHhgmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJEck8JC
AnfPQMF2FAIFRAQFm1F/zSQGPiU19vQncE7Bz7s3cjQkQBEQYGpcFXWBGMfEgiE5IoGHB0ych4bpKgQIjAoIMKP8mk8K
eExM6utN4J6AnXNv5m5gECNgABT4+qrCwQ8JhYMyREJPCRg5zw0TFchQGBUQIAZ5dd8UsBjYlJfbwL3BOycezn3YwIEa
gQEmBpXX10g4DGxYEiO5OAhAtvnoWG6CgECowICzCi/5pMCHhOT+noTuCdG59ybuRstIFAjIMDUUPrqAgGPIQVdCkQCdW
nYOQ8N01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGGEBpsbVvxcIEEwsGJIjEnhIwM55aJiuQoDAqIAAM8qv+aS
Ax8Skvt4E7gnYOfdm7sYECNQCIDA1rr66QMBjYsGQHJHAQWJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBPM65N3M3JkCg
RkCAqXH11QUCHhMLhuSIBB4SsHMeGqarECAwKiDAjPjRPinMTGprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDakRyTw
ICd89AwXYUAgVEBAWAUX/NJAY+JSX29CdwTshPuzdyNCRCoERBg1x9dYGAX8SCITkigYcE7JyHhukqBAiMCggwo/yaTw
p4TEzq603gnoCdc2/mbyAQI2AAFPj6qsLBDwmFgzJEQk8JGDnPDRMVyFAYFRAGBn113xSwGNiU19vAvce7Jx7M3djAgR
qBASyGldfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIE5P6ehO4J2Dn3Ju5GxMgUCMGwNS4+uoCAY+JBUNYRAIP
CdG5Dw3TVQgQGBUQEYb5NZ8U8JiYlNebwD0BO+fezN2YAEaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5p
IDHxKS+3gTuCdG592buxgQI1AgIMDWuvrpAwGNiWZACKeBDAnBOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQK
BGQICpcfXVBQIEEwuG5IgEhHkwcx4apqsQIDAqIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQCIT2rry4Q8JhYMCrHJPC
QgJ3z0DBdhQCBUQEYb5NZ8U8JiYlNebwD0BO+fezN2YAEaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5p
CnhMTORrTeCegJ1zb+ZuTIBAJYAAU+PqqwsEPCYWDmKRCtWkYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCB
EagQEmBpXX10g4DGxYEiO5OAhAtvnoWG6CgECowICzCi/5pMCHhOT+noTuCdG59ybuRstIFAjIMDUUPrqAgGPIQVdCkQC
8J2DkPddNVCBAYFRBgRvk1nxTwmJjU15vAPQE7597M3ZgAgRoBAabG1VcXCHhMLBiSIXJ4SMD0eWiYrkKAwKiAADPKr/m
kgMfEpL7eBO4J2Dn3Zu7GBAJUCAGwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRGBQSYUX7NjWU8Jib19SzwT8D0utDzNyZA
oEZAgKlX9dUFah4Tc4bkiAQeErBzHhgmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJEck8
JcAnfPQMF2FAIFRAQFm1F/zSQGPiU19vQncE7Bz7s3cjQkQBEQYGpcFXWBGMfEgiE5IoGHB0ych4bpKgQIjAoIMKP8mk
8KeExM6utN4J6AnXNv5m5gECNgABT4+qrCwQ8JhYMyREJPCRg5zw0TFchQGBUQIAZ5dd8UsBjYlJfbwL3BOycezn3YwIEa
gQEmBpXX10g4DGxYEiO5OAhAtvnoWG6CgECowICzCi/5pMCHhOT+noTuCdG59ybuRstIFAjIMDUUPrqAgGPIQVdCkQC
DwnYOQ8N01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGGEBpsbVvxcIEEwsGJIjEnhIwM55aJiuQoDAqIAAM8qv+a
SAX8Skvt4E7gnYOfdm7sYECNQCIDA1rr66QMBjYsGQHJHAQWJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBPM65N3M3Jk
CgRkCAqXH11QUCHhMLhuSIBB4SsHMeGqarECAwKiDAjPjRPinMTGprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDakRyT
wkICd89AwXYUAgVEBAWAUX/NJAY+JSX29CdwTshPuzdyNCRCoERBg1x9dYGAX8SCITkigYcE7JyHhukqBAiMCggwo/ya
TwP4TEzq603gnoCdc2/mbyAQI2AAFPj6qsLBDwmFgzJEQk8JGDnPDRMVyFAYFRAGBn113xSwGNiU19vAvce7Jx7M3djAgR
qBASyGldfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIE5P6ehO4J2Dn3Ju5GxMgUCMGwNS4+uoCAY+JBUNYRA
IPCdG5Dw3TVQgQGBUQEYb5NZ8U8JiYlNebwD0BO+fezN2YAEaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/
5pIDHxKS+3gTuCdG592buxgQI1AgIMDWuvrpAwGNiWZACKeBDAnBOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcm
QKBGQICpcfXVBQIEEwuG5IgEhHkwcx4apqsQIDAqIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQCIT2rry4Q8JhYMCrHJ
PCQgJ3z0DBdhQCBUQEYb5NZ8U8JiYlNebwD0BO+fezN2YAEaAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/
JpPCnhMTORrTeCegJ1zb+ZuTIBAJYAAU+PqqwsEPCYWDmKRCtWkYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2M
CBGoEBJgav19dIOAXsWBIjKjgIQE756FhugoBAqMCAswo+atAh4Tk/p6E7gnYOfcm7kbEyBQYdAlLj66gIBj4kFQ3JE
Ag8J2DkPddNVCBAYFRBgRvk1nxTwmJjU15vAPQE7597M3ZgAgRoBAabG1VcXCHhMLBiSIXJ4SMD0eWiYrkKAwKiAADPKr/
/mkgMfEpL7eBO4J2Dn3Zu7GBAJUCAGwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRGBQSYUX7NjWU8Jib19SzwT8D0utDzNy
ZAoeZAgKlX9dUFat+PiY+Pjz8/jwr//mTx9zfhd8Cg6jfwS28WrEdHJECAwK8WEGb+9Xgcr1Lg6+VLY9WD3W/Ab6D1N/C
9d/wRIECAQCygwGR+qgkQIECAAAECBAGQaBQQYBqxtSJAgaAABAgQIECBAIBMQYDI/1QQIECBAGaAABAgQINAoIMI3YWhEg
QIAAAQIECBAGakIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAAECBAGQyAQEmMxPNQECBAGQIECAAAECjQICTCO2V
gQIECBAGaAABAgQIzAICTOanmgABAgQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEGgUEmEZsrQgQIECAAAECBAGQIBao4AA04
itFQECBAGQIECAAAECmYAAk/mpJkCAAAECBAGQIECgUUAacTwigABAgQIECBAGACBTECAyfxUEyBAGaAABAgQIECDQKCD
ANGJrRYAAQIECBAGQIBAJiDAZH6qCRAGQIAAAQIECBBoFBbGGrG1IkCAAAECBAGQIEAgExBgMj/VBAGQIECAAAECBAG0
CggwjdhAESBAGaAABAgQIECCQCQgwmZ9qAgQIECBAGaAABAgQaBQSYRmytCBAGQIAAAQIECBdIBASyZ81AQIECBAGQIAAA
QKNAGJMI7ZWBAGQIECAAAECBAhKagJM5qeaAAECBAGQIECAAIFFGAQGMevsRAgQIECBAGaAABAgQyAQEm81NNgAABAgQIEC
BAGecjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIFFMQIDJ/FQTIECAAAEC
CBAGQINAoIMA0YmtFgAABAgQIECBAGeAmIMBkfQJECBAGaAABAgQIEGgUEGAasbUiQIAAAQIECBAGQcATEGAyP9UECBAG
QIAAAQIECDQKCDN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBoFBjHGbK0IECBAGaAABAgQIEGgUEBjJMTzUBA
gQIECBAGaAABAg0CAkwjtlYECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECBDIBASbzU0
2AAECBAGQIECAQKOAANOIRUBAGQIECBAGaAABAgPMaAJF5qSZAgaAABAgQIECBAGaFFAGGnE1ooAAQIECBAGQIBAGUxAgMn
8VBMgQIAAAQIECBAG0CggwDRia0WAAAECAAGQIECAQCygwGR+qgkQIECAAAECBAGQaBQQYBqxtSJAgaAABAgQIECBAIBMQ
YDI/1QQIECBAGaAABAgQINAoIMI3YWhEgQIAAAQIECBAGakIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAAECBAGQy
AQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGaAABAgQIzAICTOanmgABAgQIECBAGACBRgEBphFbKwIECBAGQIAAAQ
IEMgEBJvNTTYAAQIECBAGQIBAO4AA04itFQECBAGQIECAAAECmYAAk/mpJkCAAAECBAGQIECgUUAacTwigABAgQIECB
AGACBTECAyfxUEyBAGaAABAgQIECDQKCDANGJrRYAAQIECBAGQIBAJiDAZH6qCRAGQIAAAQIECBBoFBbGGrG1IkCAAAEC
BAGQIEAgExBgMj/VBAGQIECAAAECBAG0CggwjdhAESBAGaAABAgQIECCQCQgwmZ9qAgQIECBAGaAABAgQaBQSYRmytCBAGQ
IAAAQIECBdIBASyZ81AQIECBAGQIAAAQKKNAGJMI7ZWBAGQIECAAAECBAhKagJM5qeaAAECBAGQIECAAIFFGAQGMevsRAg
QIECBAGaAABAgQyAQEm81NNgAABAgQIECBAGecjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNa
KAAECBAGQIECAAIFFMQIDJ/FQTIECAAAECBAGQINAoIMA0YmtFgAABAgQIECBAGeAmIMBkfQJECBAGaAABAgQIEGgUEGAa
sbUiQIAAAQIECBAGQcATEGAyP9UECBAGQIAAAQIECDQKCDN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBoFB
jHGbK0IECBAGaAABAgQIEGgUEBjJMTzUBAGQIECBAGaAABAg0CAkwjtlYECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGU
YBAaYRWysCBAGQIECAAAECBDIBASbzU02AAAECAAGQIECAQCygwGR+qgkQIECAAAECBAGQaBQQYBqxtSJAgaAABAgQIECBA
IBMQYDI/1QQIECBAGaAABAgQINAoIMI3YWhEgQIAAAQIECBAGakIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAAECBAGQy
AQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGaAABAgQIzAICTOanmgABAgQIECBAGACBRgEBphFbKwIECBAGQIAAAQ

QIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAQIECBAGQIBAO4AA04itFQIECBAGQIECAAECmYAAk/mpJkC
AAAECEBAGQIECGUUAacTWigABAGQIECBAGACBTECAyfxUEyBAGAABAGQIECDQKCDANGJrRYAAQIECBAGQIBAJiDAZH6q
CRAGQIAAAQIECBBoFBBgGrG1IkCAAEECBAGQIEAgExBgMj/VBAGQIECAAEECBAG0Cggwj dhaESBAGAABAGQIECCQCQgwm
Z9qAgQIECBAGAABAGQaBQSYRmytCBAGQIAAAQIECBDBIBASyze81AQIECBAGQIAAAQKNAGJMI7ZWBAGQIECAAEECBahkAg
JM5qeaAAECBAGQIECAAIFFAQGmEVsrAgQIECBAGAABAGQyAQEm81NNgAABAGQIECBAGECjgADTiK0VAQIECBAGQIAAAQK
ZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIFFMQIDJ/FQTI ECAAEECBAGQINAOIMA0YmtFgAABAGQIECBA
gEAmIMBkfgoJECBAGAABAGQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAyP9UECBAGQIAAAQIECDQKCDCN2FoRIECAAAECB
AgQIJAJCDCZn2oCBAGQIECAAEECBBoFBjHGbK0IECBAGAABAGQIEMgEBJjMTzUBAGQIECBAGAABAO0CAkwjtl1YECBAGQI
AAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAEECBDBIBASbzU02AAAECEBAGQIECAQKOAANOIrRUBAGQ
IECBAGAABAPMAAJp5qSZAgAABAGQIECBaoFFAgGnE1oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WA
AAECBAGQIECAQCYgwGR+qgkQIECAAEECBAGQaBQQYBqxtSJAgAABAGQIECBAIBMqYDI/1QQIECBAGAABAGQINAOIMI3YW
hEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAEECBAGQyAQEmMxPNQIECBAGQIECAAEECjQICTC
02VgQIECBAGAABAGQIZAICTOanmgABAGQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAQIECBAGQIBAO4A
A04itFQIECBAGQIECAAECmYAAk/mpJkCAAEECBAGQIECGUUAacTWigABAGQIECBAGACBTECAyfxUEyBAGAABAGQIECDQ
KCDANGJrRYAAQIECBAGQIBAJiDAZH6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAEECBAGQIEAgExBgMj/VBAGQIECAAEECB
Ag0Cggwj dhaESBAGAABAGQIECCQCQgwmZ9qAgQIECBAGAABAGQaBQSYRmytCBAGQIAAAQIECBDBIBASyze81AQIECBAGQI
AAQKNAGJMI7ZWBAGQIECAAEECBahkAgJM5qeaAAECBAGQIECAAIFFAQGmEVsrAgQIECBAGAABAGQyAQEm81NNgAABAGQ
IECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIFFMQIDJ/FQTI ECA
AAECBAGQINAOIMA0YmtFgAABAGQIECBAGeAmIMBkfgoJECBAGAABAGQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAyP9UEC
BAGQIAAAQIECDQKCDCN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAEECBBoFBjHGbK0IECBAGAABAGQIEMgEBJjMTz
UBAGQIECBAGAABAO0CAkwjtl1YECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAEECBDBIBASb
zU02AAAECEBAGQIECAQKOAANOIrRUBAGQIECBAGAABAPMAAJp5qSZAgAABAGQIECBaoFFAgGnE1oAAQIECBAGQIAAGUx
AgMn8VBMgQIAAAQIECBAG0CggwDRia0WAAAECEBAGQIECAQCYgwGR+qgkQIECAAEECBAGQaBQQYBqxtSJAgAABAGQIECBAI
BMqYDI/1QQIECBAGAABAGQINAOIMI3YWhEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAEECB
AGQyAQEmMxPNQIECBAGQIECAAEECjQICTC02VgQIECBAGAABAGQIZAICTOanmgABAGQIECBAGACBRgEBphFbKwIECBAGQIA
AGQIECBAGAABAGQyAQEm81NNgAABAGQIECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpx
NaKAAECBAGQIECAAIFFMQIDJ/FQTI ECAAEECBAGQINAOIMA0YmtFgAABAGQIECBAGeAmIMBkfgoJECBAGAABAGQIEGgUE
GAasbUiQIAAAQIECBAGQCATEGAyP9UECBAGQIAAAQIECDQKCDCN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAEECB
oFBjHGbK0IECBAGAABAGQIEMgEBJjMTzUBAGQIECBAGAABAO0CAkwjtl1YECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIA
AGUYBAaYRWysCBAGQIECAAEECBDBIBASbzU02AAAECEBAGQIECAQKOAANOIrRUBAGQIECBAGAABAPMAAJp5qSZAgAABAGQ
IECBaoFFAgGnE1oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WAAAECEBAGQIECAQCYgwGR+qgkQIECAA
AECBAGQaBQQYBqxtSJAgAABAGQIECBAIBMqYDI/1QQIECBAGAABAGQINAOIMI3YWhEgQIAAAQIECBAGkAkIMJmfagIECB
AGQIAAAQIEGgUEmEZsrQgQIECAAEECBAGQyAQEmMxPNQIECBAGQIECAAEECjQICTC02VgQIECBAGAABAGQIZAICTOanmgA
BAGQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAQIECBAGQIBAO4AA04itFQIECBAGQIECAAECmYAAk/mp
JkCAAEECBAGQIECGUUAacTWigABAGQIECBAGACBTECAyfxUEyBAGAABAGQIECDQKCDANGJrRYAAQIECBAGQIBAJiDAZ
H6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAEECBAGQIEAgExBgMj/VBAGQIECAAEECBAG0Cggwj dhaESBAGAABAGQIECCQCQ
gwmZ9qAgQIECBAGAABAGQaBQSYRmytCBAGQIAAAQIECBDBIBASyze81AQIECBAGQIAAAQKNAGJMI7ZWBAGQIECAAEECBah
kAgJM5qeaAAECBAGQIECAAIFFAQGmEVsrAgQIECBAGAABAGQyAQEm81NNgAABAGQIECBAGECjgADTiK0VAQIECBAGQIAA
AQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIFFMQIDJ/FQTI ECAAEECBAGQINAOIMA0YmtFgAABAGQIE
CBAGeAmIMBkfgoJECBAGAABAGQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAyP9UECBAGQIAAAQIECDQKCDCN2FoRIECAAA
ECBAGQIJAJCDCZn2oCBAGQIECAAEECBBoFBjHGbK0IECBAGAABAGQIEMgEBJjMTzUBAGQIECBAGAABAO0CAkwjtl1YECBA
gQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAEECBDBIBASbzU02AAAECEBAGQIECAQKOAANOIrRUB
AGQIECBAGAABAPMAAJp5qSZAgAABAGQIECBaoFFAgGnE1oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia
0WAAAECEBAGQIECAQCYgwGR+qgkQIECAAEECBAGQaBQQYBqxtSJAgAABAGQIECBAIBMqYDI/1QQIECBAGAABAGQINAOIMI
3YWhEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAEECBAGQyAQEmMxPNQIECBAGQIECAAEECjQI
CTC02VgQIECBAGAABAGQIZAICTOanmgABAGQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAQIECBAGQIBAO
4AA04itFQIECBAGQIECAAEECmYAAk/mpJkCAAEECBAGQIECGUUAacTWigABAGQIECBAGACBTECAyfxUEyBAGAABAGQIE
CDQKCDANGJrRYAAQIECBAGQIBAJiDAZH6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAEECBAGQIEAgExBgMj/VBAGQIECAA
ECBAG0Cggwj dhaESBAGAABAGQIECCQCQgwmZ9qAgQIECBAGAABAGQaBQSYRmytCBAGQIAAAQIECBDBIBASyze81AQIECBA
gQIAAAQKNAGJMI7ZWBAGQIECAAEECBahkAgJM5qeaAAECBAGQIECAAIFFAQGmEVsrAgQIECBAGAABAGQyAQEm81NNgAAB
AGQIECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIFFMQIDJ/FQTI
ECAAAECBAGQINAOIMA0YmtFgAABAGQIECBAGeAmIMBkfgoJECBAGAABAGQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAyP9
UECBAGQIAAAQIECDQKCDCN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAEECBBoFBjHGbK0IECBAGAABAGQIEMgEBJj
MTzUBAGQIECBAGAABAO0CAkwjtl1YECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAEECBDBI
ASbzU02AAAECEBAGQIECAQKOAANOIrRUBAGQIECBAGAABAPMAAJp5qSZAgAABAGQIECBaoFFAgGnE1oAAQIECBAGQIAAG
UxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WAAAECEBAGQIECAQCYgwGR+qgkQIECAAEECBAGQaBQQYBqxtSJAgAABAGQIEC
BAIBMqYDI/1QQIECBAGAABAGQINAOIMI3YWhEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAEE
CBAGQyAQEmMxPNQIECBAGQIECAAEECjQICTC02VgQIECBAGAABAGQIZAICTOanmgABAGQIECBAGACBRgEBphFbKwIECBAG
QIAAAQIEMgEBJvNTTYAAQIECBAGQIBAO4AA04itFQIECBAGQIECAAECmYAAk/mpJkCAAEECBAGQIECGUUAacTWigABA
gQIECBAGACBTECAyfxUEyBAGAABAGQIECDQKCDANGJrRYAAQIECBAGQIBAJiDAZH6qCRAGQIAAAQIECBBoFBBgGrG1Ik
CAAEECBAGQIEAgExBgMj/VBAGQIECAAEECBAG0Cggwj dhaESBAGAABAGQIECCQCQgwmZ9qAgQIECBAGAABAGQaBQSYRmy
tCBAGQIAAAQIECBDBIBASyze81AQIECBAGQIAAAQKNAGJMI7ZWBAGQIECAAEECBahkAgJM5qeaAAECBAGQIECAAIFFAQGm

EVsrAgQIECBAGAABAgQyAQEm81NNgAABAgQIECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQ
IBpxNaKAAECBAGQIECAAIIFMQIDJ/FQTIECAAAECBAGQINAOIMA0YmtFgAABAgQIECBAGeAmIMBkfQoJECBAGAABAgQIEG
gUEGAasbUiQIAAAQIECBAGQCATEGAyP9UECBAGQIAAAQIECDQKCDN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAE
CBBofBjHgbK0IECBAGAABAgQIEMgEBJjMTzUBAgQIECBAGAABAO0CAkwjtlYECBAGQIAAAQIECGQCAkzmp5oAAQIECBAG
QIAAGUYBAaYRWysCBAGQIECAAAECBDIBASbzU02AAECBAGQIECAQKOAANOIrRUBAgQIECBAGAABApMAAJF5qSZAgABA
gQIECBAGoFFAgGnEl0oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WAAAECEBAGQIECAQCYgwGR+qgkQIE
CAAAECBAGQaBQQYBqxtSJAgAABAgQIECBAIBMQYDI/1QQIECBAGAABAgQINAOIMI3YWhEgQIAAAQIECBAGkAkIMJmfagI
ECBAGQIAAAQIEGgUEmEZsrQgQIECAAAECBAGQyAQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGAABAgQIZAICTOan
mgABAgQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAQIECBAGQIBAO4AA04itFQECBAGQIECAAAECmYAAk
/mpJkCAAAECBAGQIECgUUAacTWigABAgQIECBAGACBTECAyfxUEyBAGAABAgQIECDQKCDANGJrRYAAQIECBAGQIBAJi
DAZH6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAAECBAGQIEAgExBgMj/VBAGQIECAAAECBAG0CggwjdhAESBAGAABAgQIECC
QCQgwmZ9qAgQIECBAGAABAgQaBQSYRmytCBAGQIAAAQIECBDBIASYzE81AQIECBAGQIAAAQKNAGJMI7ZWBAGQIECAAAEC
BAhKAgJM5qeaAAECBAGQIECAAIIFGAQGMVsrAgQIECBAGAABAgQyAQEm81NNgAABAgQIECBAGECjgADTiK0VAQIECBAGQ
IAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIIFMQIDJ/FQTIECAAAECBAGQINAOIMA0YmtFgAABAg
QIECBAGeAmIMBkfQoJECBAGAABAgQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAyP9UECBAGQIAAAQIECDQKCDN2FoRIE
CAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBofBjHgbK0IECBAGAABAgQIEMgEBJjMTzUBAgQIECBAGAABAO0CAkwjtlY
CBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECBDIBASbzU02AAECBAGQIECAQKOAANOIr
RUBAgQIECBAGAABApMAAJF5qSZAgAABAgQIECBAGeGnEl0oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0
WAAAECEBAGQIECAQCYgwGR+qgkQIECAAAECBAGQaBQQYBqxtSJAgAABAgQIECBAIBMQYDI/1QQIECBAGAABAgQINAO
IMI3YWhEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEZsrQgQIECAAAECBAGQyAQEmMxPNQECBAGQIECAAAEC
jQICTCO2VgQIECBAGAABAgQIZAICTOanmgABAgQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAQIECBAGQ
IBAO4AA04itFQECBAGQIECAAAECmYAAk/mpJkCAAAECBAGQIECgUUAacTWigABAgQIECBAGACBTECAyfxUEyBAGAABAg
QIECDQKCDANGJrRYAAQIECBAGQIBAJiDAZH6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAAECBAGQIEAgExBgMj/VBAGQIEC
AAECBAG0CggwjdhAESBAGAABAgQIECCQCQgwmZ9qAgQIECBAGAABAgQaBQSYRmytCBAGQIAAAQIECBDBIASYzE81AQIE
CBAGQIAAAQKNAGJMI7ZWBAGQIECAAAECBAhKAgJM5qeaAAECBAGQIECAAIIFGAQGMVsrAgQIECBAGAABAgQyAQEm81NNg
AABAgQIECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIIFMQIDJ/F
QTIECAAAECBAGQINAOIMA0YmtFgAABAgQIECBAGeAmIMBkfQoJECBAGAABAgQIEGgUEGAasbUiQIAAAQIECBAGQCATEGA
yP9UECBAGQIAAAQIECDQKCDN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBofBjHgbK0IECBAGAABAgQIEMgE
BJjMTzUBAgQIECBAGAABAO0CAkwjtlYECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECB
BAGQIAAGUYBAaYRWysCBAGQIECAAAECBDIBASbzU02AAECBAGQIECAQKOAANOIrRUBAgQIECBAGAABApMAAJF5qSZAgA
ABAgQIECBAGoFFAgGnEl0oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WAAAECEBAGQIECAQCYgwGR+qgk
QIECAAAECBAGQaBQQYBqxtSJAgAABAgQIECBAIBMQYDI/1QQIECBAGAABAgQINAOIMI3YWhEgQIAAAQIECBAGkAkIMJmf
agIECBAGQIAAAQIEGgUEmEZsrQgQIECAAAECBAGQyAQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGAABAgQIZAICT
OanmgABAgQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAQIECBAGQIBAO4AA04itFQECBAGQIECAAAECmY
AAk/mpJkCAAAECBAGQIECgUUAacTWigABAgQIECBAGACBTECAyfxUEyBAGAABAgQIECDQKCDANGJrRYAAQIECBAGQIB
AJiDAZH6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAAECBAGQIEAgExBgMj/VBAGQIECAAAECBAG0CggwjdhAESBAGAABAgQI
ECCQCQgwmZ9qAgQIECBAGAABAgQaBQSYRmytCBAGQIAAAQIECBDBIASYzE81AQIECBAGQIAAAQKNAGJMI7ZWBAGQIECAA
AECBAhKAgJM5qeaAAECBAGQIECAAIIFGAQGMVsrAgQIECBAGAABAgQyAQEm81NNgAABAgQIECBAGECjgADTiK0VAQIECB
AGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAIIFMQIDJ/FQTIECAAAECBAGQINAOIMA0YmtFgA
ABAgQIECBAGeAmIMBkfQoJECBAGAABAgQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAyP9UECBAGQIAAAQIECDQKCDN2FoR
IECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBofBjHgbK0IECBAGAABAgQIEMgEBJjMTzUBAgQIECBAGAABAO0CAkwjtl
YECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECBDIBASbzU02AAECBAGQIECAQKOAANO
IrRUBAgQIECBAGAABApMAAJF5qSZAgAABAgQIECBAGeGnEl0oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0
WAAAECEBAGQIECAQCYgwGR+qgkQIECAAAECBAGQaBQQYBqxtSJAgAABAgQIECBAIBP4D72IbrKC1aEiAAAAAE1F
TkSuQmCC</d4p1:Image>

<d4p1:ShapeInfo>

<Page Name="Page-1" Zoom="-1.000000" OffsetX="407.142857" OffsetY="528.857143"
DefaultUnitsText="50" DefaultUnitsAngle="81" DefaultUnitsDuration="44" DefaultUnitsPage="73"
DocumentID="1360559653">

<Pages>

<Page Name="Page-1" />

</Pages>

```

        <ShapeInfo Name="_1" DisplayName="Sheet.1"
Layout="{&quot;type&quot;:&quot;2D&quot;,&quot;bounds&quot;:{&quot;x&quot;:191,&quot;y&quot;
:191,&quot;width&quot;:287,&quot;height&quot;:287\\}}}" />
    </Page>
</d4pl:ShapeInfo>
</GetRasterDiagramResult>
</GetRasterDiagramResponse>
</s:Body>
</s:Envelope>

```

4.2 GetVectorDiagram

In this scenario, the protocol client calls the [GetVectorDiagram](#) method on a protocol server named "ExampleServer". The protocol server responds with a [GetVectorDiagramResponse](#). In this case the [drawing page](#) does not contain data providers to be implemented by the protocol client.

To request the vector formatted drawing page, the protocol client constructs the following WSDL message:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">http://tempuri.org/IVisioGraphicsService/GetVe
ctorDiagram</a:Action>
    <a:MessageID xmlns:a="http://www.w3.org/2005/08/addressing">urn:uuid:d6266798-5744-42ed-
9753-cc263fda28ae</a:MessageID>
    <a:ReplyTo xmlns:a="http://www.w3.org/2005/08/addressing">
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">https://ExampleServer:32844/69e08a7b0e904d1a95
de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
secect-1.0.xsd">.....</o:Security>
  </s:Header>
  <s:Body>
    <GetVectorDiagram xmlns="http://tempuri.org/">
      <vectorDiagramRequest
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:DataSources i:nil="true"></b:DataSources>
        <b:DisableRefresh>true</b:DisableRefresh>
        <b:FileUri>http://ExampleServer/BasicDiagram.vdw</b:FileUri>
        <b:PageNumber>1</b:PageNumber>
        <b:TimeLastModified>2009-05-20T17:42:20</b:TimeLastModified>
      </vectorDiagramRequest>
    </GetVectorDiagram>
  </s:Body>
</s:Envelope>

```

The protocol server then responds with the following:

```

<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>

```

```

    <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse</a:Act
ion>
  </s:Header>
  <s:Body>
    <GetVectorDiagramResponse xmlns="http://tempuri.org/">
      <GetVectorDiagramResult
xmlns:d4pl="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsSer
ver" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4pl:CacheAge>60</d4pl:CacheAge>
        <d4pl:DataSources i:nil="true"></d4pl:DataSources>
        <d4pl:OutputPage>
          <d4pl:Resources></d4pl:Resources>
          <d4pl:ShapeInfo>
            <Page Name="Page-1" Zoom="-1.000000" OffsetX="407.142857" OffsetY="528.857143"
DefaultUnitsText="50" DefaultUnitsAngle="81" DefaultUnitsDuration="44" DefaultUnitsPage="73"
DocumentID="1360559653">
              <Pages>
                <Page Name="Page-1" />
              </Pages>
              <ShapeInfo Name="_1" DisplayName="Sheet.1"
Layout="{&quot;type&quot;:&quot;2D&quot;,&quot;bounds&quot;:&quot;x&quot;:191,&quot;y&quot;:191,&quot;width&quot;:287,&quot;height&quot;:287\}\}" />
            </d4pl:ShapeInfo>
            <d4pl:Xaml>
              <Canvas Height="1056" Name="Workspace" Width="816"
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation">
                <!-- Page -->
                <Canvas Width="816" Height="1056" Name="D">
                  <Canvas.Background>
                    <SolidColorBrush Color="#FFFFFFFF"/>
                  </Canvas.Background>
                  <Canvas
Tag="{&#34;type&#34;:&#34;2D&#34;,&#34;bounds&#34;:&quot;:&#34;x&#34;:192,&#34;y&#34;:192,&#34;wi
dth&#34;:285,&#34;height&#34;:285\}\}"
Name="_1" RenderTransform="1, 0, 0, 1, 192, -579">
                    <Rectangle Canvas.Left="-0.5" Canvas.Top="770.5" Height="286"
Name="_1_G0_P0" Width="286" StrokeThickness="1"
StrokeDashCap="Round" StrokeEndLineCap="Round"
StrokeLineJoin="Round" StrokeStartLineCap="Round">
                      <Rectangle.Stroke>
                        <SolidColorBrush Color="#FF000000"/>
                      </Rectangle.Stroke>
                      <Rectangle.Fill>
                        <SolidColorBrush Color="#FFFFFFFF"/>
                      </Rectangle.Fill>
                    </Rectangle>
                  </Canvas>
                </Canvas>
              </d4pl:Xaml>
            </d4pl:OutputPage>
          </GetVectorDiagramResult>
        </GetVectorDiagramResponse>
      </s:Body>
    </s:Envelope>
  </s:Header>
</s:Envelope>

```

4.3 GetVectorDiagram with AddonDataSource

In this scenario, the protocol client calls the [GetVectorDiagram](#) method on a protocol server named "ExampleServer". In this case the protocol client is requesting a [drawing page](#) in a [Web drawing](#) that is linked to data with a data provider to be implemented by the protocol client.

Initially the protocol client constructs the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1"
      xmlns:a="http://www.w3.org/2005/08/addressing">http://tempuri.org/IVisioGraphicsService/GetVectorDiagram</a:Action>
    <a:MessageID xmlns:a="http://www.w3.org/2005/08/addressing">urn:uuid:cd490d30-778d-447c-91f3-c0b0ea0e5de4</a:MessageID>
    <a:ReplyTo xmlns:a="http://www.w3.org/2005/08/addressing">
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1"
      xmlns:a="http://www.w3.org/2005/08/addressing">https://ExampleServer:32844/69e08a7b0e904d1a95de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">.....</o:Security>
  </s:Header>
  <s:Body>
    <GetVectorDiagram xmlns="http://tempuri.org/">
      <vectorDiagramRequest
        xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:DataSources i:nil="true"></b:DataSources>
        <b:DisableRefresh>false</b:DisableRefresh>
        <b:FileUri>http://ExampleServer/Data_Connected.vdw</b:FileUri>
        <b:PageNumber>1</b:PageNumber>
        <b:TimeLastModified>2009-05-22T16:24:27</b:TimeLastModified>
      </vectorDiagramRequest>
    </GetVectorDiagram>
  </s:Body>
</s:Envelope>
```

The protocol server then responds with the following [GetVectorDiagramResponse](#):

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse</a:Action>
    </s:Header>
  <s:Body>
    <GetVectorDiagramResponse xmlns="http://tempuri.org/">
      <GetVectorDiagramResult
        xmlns:d4pl="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4pl:CacheAge>0</d4pl:CacheAge>
        <d4pl:DataSources>
          <d4pl:AddonDataSource>
            <d4pl:ConnectionString>datamodule=Microsoft.Office.Visio.Server.EcsDataHandler,
Microsoft.Office.Visio.Server, Version=14.0.0.0, Culture=neutral,
PublicKeyToken=71e9bce11e9429c;provider=Microsoft.ACE.OLEDB.12.0;user id=Admin;data
```

```

source=http://ExampleServer/sampledata.xlsx;mode=Read;extended
properties='HDR=YES;imex=1;maxscanrows=0;excel 12.0;';jet oledb:system database='';jet
oledb:registry path='';jet oledb:engine type=37;jet oledb:database locking mode=0;jet
oledb:global partial bulk ops=2;jet oledb:global bulk transactions=1;jet oledb:new database
password='';jet oledb:create system database=False;jet oledb:encrypt database=False;jet
oledb:don't copy locale on compact=False;jet oledb:compact without replica repair=False;jet
oledb:sfp=False;jet oledb:support complex data=False</d4p1:ConnectionString>
<d4p1:Data>
  <xs:schema id="NewDataSet" xmlns="" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
    <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:Locale="">
      <xs:complexType>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element name="Table1" msdata:Locale="">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="ID" type="xs:string"
minOccurs="0"></xs:element>
                <xs:element name="FN" type="xs:string"
minOccurs="0"></xs:element>
                <xs:element name="LN" type="xs:string"
minOccurs="0"></xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:choice>
      </xs:complexType>
    </xs:element>
  </xs:schema>
  <diffgr:diffgram xmlns:msdata="urn:schemas-microsoft-com:xml-msdata"
xmlns:diffgr="urn:schemas-microsoft-com:xml-diffgram-v1"></diffgr:diffgram>
</d4p1:Data>
<d4p1:Id>1</d4p1:Id>
<d4p1:QueryString>SheetName=Sheet1; RangeName=A1:C5;</d4p1:QueryString>
</d4p1:AddonDataSource>
</d4p1:DataSources>
<d4p1:OutputPage i:nil="true"></d4p1:OutputPage>
</GetVectorDiagramResult>
</GetVectorDiagramResponse>
</s:Body>
</s:Envelope>

```

To request the vector formatted drawing page with an [AddonDataSource](#), the protocol client now constructs the following WSDL message:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">http://tempuri.org/IVisioGraphicsService/GetVe
ctorDiagram</a:Action>
    <a:MessageID xmlns:a="http://www.w3.org/2005/08/addressing">urn:uuid:c22e255b-6923-496d-
a3f5-a2f3c45f4bbd</a:MessageID>
    <a:ReplyTo xmlns:a="http://www.w3.org/2005/08/addressing">
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">https://ExampleServer:32844/69e08a7b0e904d1a95
de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
secext-1.0.xsd">.....</o:Security>
  </s:Header>
  <s:Body>
    <GetVectorDiagramResult>
      <GetVectorDiagramResponse>
        <GetVectorDiagramResult>
          <GetVectorDiagramResult>
            <GetVectorDiagramResult>
              <GetVectorDiagramResult>
                <GetVectorDiagramResult>
                  <GetVectorDiagramResult>
                    <GetVectorDiagramResult>
                      <GetVectorDiagramResult>
                        <GetVectorDiagramResult>
                          <GetVectorDiagramResult>
                        </GetVectorDiagramResult>
                      </GetVectorDiagramResult>
                    </GetVectorDiagramResult>
                  </GetVectorDiagramResult>
                </GetVectorDiagramResult>
              </GetVectorDiagramResult>
            </GetVectorDiagramResult>
          </GetVectorDiagramResult>
        </GetVectorDiagramResult>
      </GetVectorDiagramResult>
    </s:Body>
  </s:Envelope>

```

```

</s:Header>
<s:Body>
  <GetVectorDiagram xmlns="http://tempuri.org/">
    <vectorDiagramRequest
      xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:DataSources>
        <b:AddonDataSource>
          <b:ConnectionString>datamodule=Microsoft.Office.Visio.Server.EcsDataHandler,
Microsoft.Office.Visio.Server, Version=14.0.0.0, Culture=neutral,
PublicKeyToken=71e9bce11e9429c;provider=Microsoft.ACE.OLEDB.12.0;user id=Admin;data
source=http://ExampleServer/sampledData.xlsx;mode=Read;extended
properties='HDR=YES;imex=1;maxscanrows=0;excel 12.0;';jet oledb:system database='';jet
oledb:registry path='';jet oledb:engine type=37;jet oledb:database locking mode=0;jet
oledb:global partial bulk ops=2;jet oledb:global bulk transactions=1;jet oledb:new database
password='';jet oledb:create system database=False;jet oledb:encrypt database=False;jet
oledb:don't copy locale on compact=False;jet oledb:compact without replica repair=False;jet
oledb:sfp=False;jet oledb:support complex data=False</b:ConnectionString>
        <b>Data>
          <xs:schema id="NewDataSet" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns=""
            xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
            <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:Locale="">
              <xs:complexType>
                <xs:choice minOccurs="0" maxOccurs="unbounded">
                  <xs:element name="Table1">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="ID" type="xs:double"
minOccurs="0"></xs:element>
                        <xs:element name="FN" type="xs:string"
minOccurs="0"></xs:element>
                        <xs:element name="LN" type="xs:string"
minOccurs="0"></xs:element>
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                </xs:choice>
              </xs:complexType>
            </xs:element>
          </xs:schema>
          <diffgr:diffgram xmlns:diffgr="urn:schemas-microsoft-com:xml-diffgram-v1"
            xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
            <NewDataSet xmlns="">
              <Table1 diffgr:id="Table11" msdata:rowOrder="0"
diffgr:hasChanges="inserted">
                <ID>1</ID>
                <FN>Happy</FN>
                <LN>kitty</LN>
              </Table1>
              <Table1 diffgr:id="Table12" msdata:rowOrder="1"
diffgr:hasChanges="inserted">
                <ID>2</ID>
                <FN>Silly</FN>
                <LN>dog</LN>
              </Table1>
              <Table1 diffgr:id="Table13" msdata:rowOrder="2"
diffgr:hasChanges="inserted">
                <ID>3</ID>
                <FN>Order</FN>
                <LN>Id</LN>
              </Table1>
            </NewDataSet>
          </diffgr:diffgram>
        </b>Data>
      </b:DataSources>
    </vectorDiagramRequest>
  </GetVectorDiagram>

```

```

        <Table1 diffgr:id="Table14" msdata:rowOrder="3"
diffgr:hasChanges="inserted">
        <ID>4</ID>
        <FN>green</FN>
        <LN>turtle</LN>
        </Table1>
    </NewDataSet>
</diffgr:diffgram>
</b:Data>
<b:Id>1</b:Id>
    <b:QueryString>SheetName=Sheet1; RangeName=A1:C5;</b:QueryString>
</b:AddonDataSource>
</b:DataSources>
<b:DisableRefresh>>false</b:DisableRefresh>
<b:FileUri>http://ExampleServer/Data_Connected.vdw</b:FileUri>
<b:PageNumber>1</b:PageNumber>
    <b:TimeLastModified>2009-05-22T16:24:27</b:TimeLastModified>
</vectorDiagramRequest>
</GetVectorDiagram>
</s:Body>
</s:Envelope>

```

Finally, the protocol server responds with the following GetVectorDiagramResponse:

```

<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
    <s:Header>
        <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse</a:Act
ion>
    </s:Header>
    <s:Body>
        <GetVectorDiagramResponse xmlns="http://tempuri.org/">
            <GetVectorDiagramResult
xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsSer
ver" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
                <d4p1:CacheAge>5</d4p1:CacheAge>
                <d4p1:DataSources i:nil="true"></d4p1:DataSources>

                <d4p1:OutputPage>
                    <d4p1:Resources></d4p1:Resources>
                    <d4p1:ShapeInfo>
                        <Page Name="Page-1" Zoom="1.192093" OffsetX="346.714286" OffsetY="769.714286"
DefaultUnitsText="50" DefaultUnitsAngle="81" DefaultUnitsDuration="44" DefaultUnitsPage="73"
Conflict="0" DocumentID="-1092095043">
                            <Pages>
                                <Page Name="Page-1" />
                            </Pages>
                            <ShapeInfo Name="_1" DisplayName="Tagged process"
Layout="\{&quot;type&quot;:&quot;2D&quot;,&quot;bounds&quot;:&quot;x&quot;:&quot;132,&quot;y&quot;:&quot;276,&quot;width&quot;:&quot;222,&quot;height&quot;:&quot;75&quot;\}&quot;">
                                <ShapeDataItems>
                                    <ShapeData Name="ID" FormattedValue="1" Value="1" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="1" />
                                    <ShapeData Name="FN" FormattedValue="Happy" Value="Happy" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="1" />
                                    <ShapeData Name="LN" FormattedValue="kitty" Value="kitty" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="1" />
                                </ShapeDataItems>

```



```

        </ShapeInfo>
        <ShapeInfo Name="_9" DisplayName="Tagged process.9"
Layout="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:96,&quot;y&quot;;:456,&quot;width&quot;;:222,&quot;height&quot;;:75\}\}">
        <ShapeDataItems>
            <ShapeData Name="ID" FormattedValue="2" Value="2" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="2" />
            <ShapeData Name="FN" FormattedValue="Silly" Value="Silly" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="2" />
            <ShapeData Name="LN" FormattedValue="dog" Value="dog" Format="{0}" Type="0"
LangID="1033" UnitLabel="0" Unit="105" BindingID="2" />
        </ShapeDataItems>
    </ShapeInfo>
    <ShapeInfo Name="_17" DisplayName="Tagged process.17"
Layout="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:120,&quot;y&quot;;:648,&quot;width&quot;;:222,&quot;height&quot;;:75\}\}">
        <ShapeDataItems>
            <ShapeData Name="ID" FormattedValue="3" Value="3" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="3" />
            <ShapeData Name="FN" FormattedValue="Order" Value="Order" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="3" />
            <ShapeData Name="LN" FormattedValue="Id" Value="Id" Format="{0}" Type="0"
LangID="1033" UnitLabel="0" Unit="105" BindingID="3" />
        </ShapeDataItems>
    </ShapeInfo>
    <ShapeInfo Name="_25" DisplayName="Tagged process.25"
Layout="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:480,&quot;y&quot;;:492,&quot;width&quot;;:222,&quot;height&quot;;:75\}\}">
        <ShapeDataItems>
            <ShapeData Name="ID" FormattedValue="4" Value="4" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="4" />
            <ShapeData Name="FN" FormattedValue="green" Value="green" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="4" />
            <ShapeData Name="LN" FormattedValue="turtle" Value="turtle" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="4" />
        </ShapeDataItems>
    </ShapeInfo>
</Page>
</d4pl:ShapeInfo>
<d4pl:Xaml>
    <Canvas Height="1056" Name="Workspace" Width="816"
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation">
        <!-- Page -->
        <Canvas Width="816" Height="1056" Name="D">
            <Canvas.Background>
                <SolidColorBrush Color="#FFFFFF" />
            </Canvas.Background>
            <Canvas
Tag="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:132,&quot;y&quot;;:276,&quot;width&quot;;:96,&quot;height&quot;;:72\}\}" Name="_1" RenderTransform="1, 0, 0, 1, 132, -708">
                <Canvas Name="_2">
                    <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">
                        <Path Name="S_2_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
                            <Path.Stroke>
                                <SolidColorBrush Color="#7FDEDEDE" />
                            </Path.Stroke>
                            <Path.Fill>
                                <SolidColorBrush Color="#7FDEDEDE" />
                            </Path.Fill>
                        </Canvas>
                    </Canvas>
                </Canvas>
            </Canvas>
        </Canvas>
    </d4pl:Xaml>

```

```

        </Path.Fill>
    </Path>
</Canvas>
    <Path Name="_2_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
    <Path.Stroke>
        <SolidColorBrush Color="#00404040" />
    </Path.Stroke>
    <Path.Fill>
        <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
            <LinearGradientBrush.GradientStops>
                <GradientStop Color="#00FF00FF" />
                <GradientStop Color="#00FF00FF" Offset="1" />
            </LinearGradientBrush.GradientStops>
        </LinearGradientBrush>
    </Path.Fill>
</Path>
</Canvas>
    <Canvas Name="_3" RenderTransform="1, 0, 0, 1, 72, 0">
        <Path Name="_3_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
            <Path.Stroke>
                <SolidColorBrush Color="#FF404040" />
            </Path.Stroke>
            <Path.Fill>
                <SolidColorBrush Color="#FF000000" />
            </Path.Fill>
        </Path>
    </Canvas>
    <Canvas Name="_5">
        <Canvas.RenderTransform>
            <MatrixTransform Matrix="1,0,0,1,102,-16.65076" />
        </Canvas.RenderTransform>
        <Path Name="_5_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.57080078125 L1.92 1038.57080078125 L1.92 1054.08 Z"></Path>
        <Path Name="_5_G1_P1" Data="M1.92 1054.08 L118.08 1054.08"></Path>
        <Path Name="_5_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.57080078125 L1.92 1038.57080078125 L1.92 1054.08 Z">
            <Path.Stroke>
                <SolidColorBrush Opacity="0" Color="#FF404040" />
            </Path.Stroke>
        </Path>
        <Path Name="_5_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
            <Path.Stroke>
                <SolidColorBrush Color="#FF404040" />
            </Path.Stroke>
        </Path>
        <TextBlock
Tag="Left;Top;;1.2;0.0138888888888889;0.0138888888888889;0.0138888888888889;0.0138888888888889"
Height="0.201553942620754" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0,
96, 1.92, 1038.608582" TextWrapping="Wrap">
            <Run Name="txt_5_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
        </TextBlock>
    </Canvas>

```

```

        <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">
        <Glyphs.Fill>
        <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
        </Glyphs>
    </Canvas>
    <Canvas Name="_6">
        <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.201553942620754" Visibility="Collapsed" Width="1.0386175337222"
RenderTransform="96, 0, 0, 96, 18.372717, 1038.608582" TextWrapping="Wrap">
        <Run Name="txt_6_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">not kitty </Run>
        </TextBlock>
    </Canvas>
    <Canvas.RenderTransform>
    <MatrixTransform Matrix="96,0,0,96,18.3744,1038.571" />
    </Canvas.RenderTransform>
    <Glyphs UnicodeString="kitty" OriginX="0.825711078964174"
OriginY="0.111110001802444" FontUri="CommonFonts/4C1AABE5-BA71-4F2C-8263-66731F995C4B.odttf"
FontRenderingEmSize="0.111110001802444" Fill="#FF000000" Visibility="Visible" />
    </Canvas>
</Canvas>
<Canvas Name="_7">
    <Canvas.RenderTransform>
    <MatrixTransform Matrix="1,0,0,1,102,-36" />
    </Canvas.RenderTransform>
    <Path Name="_7_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.57080078125 L1.92 1054.08 Z"></Path>
    <Path Name="_7_G1_P1" Data="M1.92 1054.08 L118.08 1054.08"></Path>
    <Path Name="_7_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.57080078125 L1.92 1038.57080078125 L1.92 1054.08 Z">
    <Path.Stroke>
    <SolidColorBrush Opacity="0" Color="#FF404040" />
    </Path.Stroke>
</Path>
    <Path Name="_7_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
    <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
</Path>
    <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.201553942620754" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0,
96, 1.92, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_7_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
    <Glyphs.Fill>
    <SolidColorBrush Color="#FF000000" />
    </Glyphs.Fill>
    </Glyphs>

```

```

</Canvas>
<Canvas Name="_8">
  <TextBlock
    Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
    9" Height="0.201553942620754" Visibility="Collapsed" Width="1.0342764082339"
    RenderTransform="96, 0, 0, 96, 18.789465, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_8_fld0" FontFamily="Calibri" FontSize="0.11111"
    Foreground="#FF000000">not Happy </Run>
  </TextBlock>
</Canvas>
  <Canvas>
    <Canvas.RenderTransform>
      <MatrixTransform Matrix="96,0,0,96,18.7872,1038.571" />
    </Canvas.RenderTransform>
    <Glyphs UnicodeString="Happy" OriginX="0.787411080680788"
    OriginY="0.111110001802444" FontUri="CommonFonts/4C1AABE5-BA71-4F2C-8263-66731F995C4B.odttf"
    FontRenderingEmSize="0.111110001802444" Fill="#FF000000" Visibility="Visible" />
  </Canvas>
</Canvas>
<Canvas Name="_4">
  <Path Name="_4_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
  StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
  L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
    <Path.Stroke>
      <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
    <Path.Fill>
      <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
        <LinearGradientBrush.GradientStops>
          <GradientStop Color="#FFFAFAFA" />
          <GradientStop Color="#FFFFFFF" Offset="1" />
        </LinearGradientBrush.GradientStops>
      </LinearGradientBrush>
    </Path.Fill>
  </Path>
</Canvas>
</Canvas>
<Canvas
  Tag="\{&quot;type&quot;;&quot;2D&quot;;&quot;bounds&quot;;\{&quot;x&quot;;96,&quot;y&quot;;45
  6,&quot;width&quot;;96,&quot;height&quot;;72\}\}" Name="_9" RenderTransform="1, 0, 0, 1, 96,
  -528">
  <Canvas Name="_10">
    <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">
      <Path Name="S_10_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
      StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
      L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
        <Path.Stroke>
          <SolidColorBrush Color="#7FDEDEDE" />
        </Path.Stroke>
        <Path.Fill>
          <SolidColorBrush Color="#7FDEDEDE" />
        </Path.Fill>
      </Path>
    </Canvas>
    <Path Name="_10_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
    StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
    L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
      <Path.Stroke>
        <SolidColorBrush Color="#00404040" />
      </Path.Stroke>
    </Path>
  </Canvas>

```

```

        <Path.Fill>
            <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
                <LinearGradientBrush.GradientStops>
                    <GradientStop Color="#00FF00FF" />
                    <GradientStop Color="#00FF00FF" Offset="1" />
                </LinearGradientBrush.GradientStops>
            </LinearGradientBrush>
        </Path.Fill>
    </Path>
</Canvas>
<Canvas Name="_11" RenderTransform="1, 0, 0, 1, 72, 0">
    <Path Name="_11_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
        <Path.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Path.Fill>
    </Path>
</Canvas>
<Canvas Name="_13">
    <Canvas.RenderTransform>
        <MatrixTransform Matrix="1, 0, 0, 1, 102, -16.688582" />
    </Canvas.RenderTransform>
    <Path Name="_13_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
    <Path Name="_13_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
    <Path Name="_13_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_13_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <TextBlock
Tag="Left;Top;;1.2;0.0138888888888889;0.0138888888888889;0.0138888888888889;0.0138888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_13_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
<Canvas Name="_14">

```

```

        <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
9" Height="0.16116" Visibility="Collapsed" Width="1.0386" RenderTransform="96, 0, 0, 96,
18.372717, 1038.608582" TextWrapping="Wrap">
        <Run Name="txt_14_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">dog </Run>
    </TextBlock>
    <Canvas>
        <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="100.5" OriginY="1049.5" UnicodeString="dog">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
        </Glyphs>
    </Canvas>
</Canvas>
<Canvas Name="_15">
    <Canvas.RenderTransform>
        <MatrixTransform Matrix="1, 0, 0, 1, 102, -36" />
    </Canvas.RenderTransform>
    <Path Name="_15_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
    <Path Name="_15_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
    <Path Name="_15_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_15_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_15_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
    </TextBlock>
    <Canvas>
        <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
        </Glyphs>
    </Canvas>
<Canvas Name="_16">
    <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
9" Height="0.16116" Visibility="Collapsed" Width="1.0343" RenderTransform="96, 0, 0, 96,
18.789465, 1038.608582" TextWrapping="Wrap">
        <Run Name="txt_16_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">Silly </Run>
    </TextBlock>

```

```

        <Canvas>
            <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="84.559" OriginY="1049.5" UnicodeString="Silly">
                <Glyphs.Fill>
                    <SolidColorBrush Color="#FF000000" />
                </Glyphs.Fill>
            </Glyphs>
        </Canvas>
    </Canvas>
</Canvas>
<Canvas Name="_12">
    <Path Name="_12_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
        <Path.Fill>
            <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
                <LinearGradientBrush.GradientStops>
                    <GradientStop Color="#FFFAFAFA" />
                    <GradientStop Color="#FFFFFF" Offset="1" />
                </LinearGradientBrush.GradientStops>
            </LinearGradientBrush>
        </Path.Fill>
    </Path>
</Canvas>
</Canvas>
<Canvas
Tag="\{&quot;type&quot;;&quot;2D&quot;;&quot;bounds&quot;;\{&quot;x&quot;;:120,&quot;y&quot;;:6
48,&quot;width&quot;;:96,&quot;height&quot;;:72\}\}" Name="_17" RenderTransform="1, 0, 0, 1,
120, -336">
    <Canvas Name="_18">
        <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">
            <Path Name="S_18_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
                <Path.Stroke>
                    <SolidColorBrush Color="#7FDEDEDE" />
                </Path.Stroke>
                <Path.Fill>
                    <SolidColorBrush Color="#7FDEDEDE" />
                </Path.Fill>
            </Path>
        </Canvas>
        <Path Name="_18_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
            <Path.Stroke>
                <SolidColorBrush Color="#00404040" />
            </Path.Stroke>
            <Path.Fill>
                <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
                    <LinearGradientBrush.GradientStops>
                        <GradientStop Color="#00FF00FF" />
                        <GradientStop Color="#00FF00FF" Offset="1" />
                    </LinearGradientBrush.GradientStops>
                </LinearGradientBrush>
            </Path.Fill>
        </Path>
    </Canvas>

```

```

</Canvas>
<Canvas Name="_19" RenderTransform="1, 0, 0, 1, 72, 0">
  <Path Name="_19_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
    <Path.Stroke>
      <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
    <Path.Fill>
      <SolidColorBrush Color="#FF000000" />
    </Path.Fill>
  </Path>
</Canvas>
<Canvas Name="_21">
  <Canvas.RenderTransform>
    <MatrixTransform Matrix="1, 0, 0, 1, 102, -16.688582" />
  </Canvas.RenderTransform>
  <Path Name="_21_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
  <Path Name="_21_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
  <Path Name="_21_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
    <Path.Stroke>
      <SolidColorBrush Opacity="0" Color="#FF404040" />
    </Path.Stroke>
  </Path>
  <Path Name="_21_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
    <Path.Stroke>
      <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
  </Path>
  <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
    <Run Name="txt_21_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
  </TextBlock>
</Canvas>
  <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">
    <Glyphs.Fill>
      <SolidColorBrush Color="#FF000000" />
    </Glyphs.Fill>
  </Glyphs>
</Canvas>
<Canvas Name="_22">
  <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0386" RenderTransform="96, 0, 0, 96,
18.372717, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_22_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">Id </Run>
  </TextBlock>
</Canvas>
  <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="103.67" OriginY="1049.5" UnicodeString="Id">

```



```

        <Glyphs.Fill>
        <SolidColorBrush Color="#FF000000" />
    </Glyphs.Fill>
</Glyphs>
</Canvas>
</Canvas>
</Canvas>
<Canvas Name="_23">
    <Canvas.RenderTransform>
        <MatrixTransform Matrix="1, 0, 0, 1, 102, -36" />
    </Canvas.RenderTransform>
    <Path Name="_23_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
    <Path Name="_23_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
    <Path Name="_23_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_23_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_23_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
<Canvas Name="_24">
    <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0343" RenderTransform="96, 0, 0, 96,
18.789465, 1038.608582" TextWrapping="Wrap">
        <Run Name="txt_24_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">Order </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="93.242" OriginY="1049.5" UnicodeString="Order">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
</Canvas>

```

```

        </Canvas>
        <Canvas Name="_20">
            <Path Name="_20_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
                <Path.Stroke>
                    <SolidColorBrush Color="#FF404040" />
                </Path.Stroke>
                <Path.Fill>
                    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
                        <LinearGradientBrush.GradientStops>
                            <GradientStop Color="#FFFAFAFA" />
                            <GradientStop Color="#FFFFFF" Offset="1" />
                        </LinearGradientBrush.GradientStops>
                    </LinearGradientBrush>
                </Path.Fill>
            </Path>
        </Canvas>
    </Canvas>
    <Canvas
Tag="\{&quot;type&quot;;&quot;2D&quot;;&quot;bounds&quot;;\{&quot;x&quot;;480,&quot;y&quot;;4
92,&quot;width&quot;;96,&quot;height&quot;;72\}\}" Name="_25" RenderTransform="1, 0, 0, 1,
480, -492">
        <Canvas Name="_26">
            <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">
                <Path Name="S_26_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
                    <Path.Stroke>
                        <SolidColorBrush Color="#7FDEDEDE" />
                    </Path.Stroke>
                    <Path.Fill>
                        <SolidColorBrush Color="#7FDEDEDE" />
                    </Path.Fill>
                </Path>
            </Canvas>
            <Path Name="_26_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
                <Path.Stroke>
                    <SolidColorBrush Color="#00404040" />
                </Path.Stroke>
                <Path.Fill>
                    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
                        <LinearGradientBrush.GradientStops>
                            <GradientStop Color="#00FF00FF" />
                            <GradientStop Color="#00FF00FF" Offset="1" />
                        </LinearGradientBrush.GradientStops>
                    </LinearGradientBrush>
                </Path.Fill>
            </Path>
        </Canvas>
        <Canvas Name="_27" RenderTransform="1, 0, 0, 1, 72, 0">
            <Path Name="_27_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
                <Path.Stroke>
                    <SolidColorBrush Color="#FF404040" />
                </Path.Stroke>
                <Path.Fill>

```

```

        <SolidColorBrush Color="#FF000000" />
    </Path.Fill>
</Path>
</Canvas>
<Canvas Name="_29">
    <Canvas.RenderTransform>
        <MatrixTransform Matrix="1, 0, 0, 1, 102, -16.688582" />
    </Canvas.RenderTransform>
    <Path Name="_29_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
    <Path Name="_29_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
    <Path Name="_29_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_29_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_29_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
<Canvas Name="_30">
    <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0386" RenderTransform="96, 0, 0, 96,
18.372717, 1038.608582" TextWrapping="Wrap">
        <Run Name="txt_30_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">turtle </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="92.523" OriginY="1049.5" UnicodeString="turtle">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
</Canvas>
<Canvas Name="_31">
    <Canvas.RenderTransform>

```

```

        <MatrixTransform Matrix="1, 0, 0, 1, 102, -36" />
    </Canvas.RenderTransform>
    <Path Name="_31_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
    <Path Name="_31_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
    <Path Name="_31_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_31_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_31_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
    </TextBlock>
    <Canvas>
        <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
            <Glyphs.Fill>
                <SolidColorBrush Color="#FF000000" />
            </Glyphs.Fill>
        </Glyphs>
    </Canvas>
    <Canvas Name="_32">
        <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0343" RenderTransform="96, 0, 0, 96,
18.789465, 1038.608582" TextWrapping="Wrap">
            <Run Name="txt_32_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">green </Run>
        </TextBlock>
        <Canvas>
            <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="91.789" OriginY="1049.5" UnicodeString="green">
                <Glyphs.Fill>
                    <SolidColorBrush Color="#FF000000" />
                </Glyphs.Fill>
            </Glyphs>
        </Canvas>
    </Canvas>
    <Canvas Name="_28">
        <Path Name="_28_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
            <Path.Stroke>
                <SolidColorBrush Color="#FF404040" />
            </Path.Stroke>
            <Path.Fill>

```

```

        <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
            <LinearGradientBrush.GradientStops>
                <GradientStop Color="#FFFAFAFA" />
                <GradientStop Color="#FFFFFF" Offset="1" />
            </LinearGradientBrush.GradientStops>
        </LinearGradientBrush>
    </Path.Fill>
</Path>
</Canvas>
</Canvas>
</Canvas>
</Canvas>
</d4p1:Xaml>
</d4p1:OutputPage>

</GetVectorDiagramResult>
</GetVectorDiagramResponse>
</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

For ease of implementation, the full WSDL is provided below:

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:tns="http://tempuri.org/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="IVisioGraphicsService"
  targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/"
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import
        namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
        er" />
      <xs:element name="GetRasterDiagram">
        <xs:complexType>
          <xs:sequence>
            <xs:element
              xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
              r" minOccurs="0" name="rasterDiagramRequestContract" nillable="true"
              type="q1:RasterDiagramRequestContract" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetRasterDiagramResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element
                xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
                r" minOccurs="0" name="GetRasterDiagramResult" nillable="true" type="q2:RasterDiagram" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
          <xs:element name="GetVectorDiagram">
            <xs:complexType>
              <xs:sequence>
                <xs:element
                  xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
                  r" minOccurs="0" name="vectorDiagramRequest" nillable="true"
                  type="q3:VectorDiagramRequestContract" />
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="GetVectorDiagramResponse">
              <xs:complexType>
                <xs:sequence>
                  <xs:element
                    xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
                    r" minOccurs="0" name="GetVectorDiagramResult" nillable="true" type="q4:VectorDiagram" />
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:schema>
          <xs:schema
            xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
            er" elementFormDefault="qualified"
            targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.Graphi
            csServer" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```

<xs:complexType name="RasterDiagramRequestContract">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestContract">
      <xs:sequence>
        <xs:element minOccurs="0" name="Resolution" type="xs:int" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="RasterDiagramRequestContract" nillable="true"
type="tns:RasterDiagramRequestContract" />
<xs:complexType name="BaseRequestContract">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource" />
    <xs:element minOccurs="0" name="DisableRefresh" type="xs:boolean" />
    <xs:element minOccurs="0" name="FileUri" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="PageNumber" type="xs:int" />
    <xs:element minOccurs="0" name="TimeLastModified" type="xs:dateTime" />
  </xs:sequence>
</xs:complexType>
<xs:element name="BaseRequestContract" nillable="true" type="tns:BaseRequestContract"
/>

<xs:complexType name="ArrayOfAddonDataSource">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AddonDataSource"
nillable="true" type="tns:AddonDataSource" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfAddonDataSource" nillable="true"
type="tns:ArrayOfAddonDataSource" />
<xs:complexType name="AddonDataSource">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConnectionString" nillable="true" type="xs:string"
/>

    <xs:element minOccurs="0" name="Data" nillable="true">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="xs:schema" />
          <xs:any />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element minOccurs="0" name="Id" type="xs:int" />
    <xs:element minOccurs="0" name="QueryString" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="AddonDataSource" nillable="true" type="tns:AddonDataSource" />
<xs:complexType name="RasterDiagram">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="AreaMaps" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Image" nillable="true" type="xs:base64Binary"
/>

        <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```



```

</xs:complexType>
<xs:element name="RasterDiagram" nillable="true" type="tns:RasterDiagram" />
<xs:complexType name="DiagramBase">
  <xs:sequence>
    <xs:element minOccurs="0" name="CacheAge" type="xs:int" />
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource" />
  </xs:sequence>
</xs:complexType>
<xs:element name="DiagramBase" nillable="true" type="tns:DiagramBase" />
<xs:complexType name="VisioGraphicsServiceFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="Details" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Error" type="tns:FaultCode" />
    <xs:element minOccurs="0" name="Flags" type="xs:int" />
  </xs:sequence>
</xs:complexType>
<xs:element name="VisioGraphicsServiceFault" nillable="true"
type="tns:VisioGraphicsServiceFault" />
<xs:simpleType name="FaultCode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DataConnectivityError" />
    <xs:enumeration value="EmptyRasterDiagramRequest" />
    <xs:enumeration value="EmptyVectorDiagramRequest" />
    <xs:enumeration value="OfficeDataConnectionFileNotFound" />
    <xs:enumeration value="OfficeDataConnectionFileRetrievalError" />
    <xs:enumeration value="OfficeDataConnectionFileAccessDenied" />
    <xs:enumeration value="IncompatibleDomain" />
    <xs:enumeration value="WssViewAccessDenied" />
    <xs:enumeration value="WssListAccessDenied" />
    <xs:enumeration value="InvalidPageNumber" />
    <xs:enumeration value="InvalidResolution" />
    <xs:enumeration value="InvalidFileUrl" />
    <xs:enumeration value="RasterizationError" />
    <xs:enumeration value="InvalidFileExtension" />
    <xs:enumeration value="EmptyServerData" />
    <xs:enumeration value="OpenServerFileFailed" />
    <xs:enumeration value="NoReadPermissionToFile" />
    <xs:enumeration value="KeyNotFoundFromCollection" />
    <xs:enumeration value="ExceededMaxDiagramSize" />
    <xs:enumeration value="IncompatibleVersion" />
    <xs:enumeration value="DataProviderNotTrusted" />
    <xs:enumeration value="DataBindingConflict" />
    <xs:enumeration value="UnableToGetExternalDataSourceCredentials" />
    <xs:enumeration value="UnattendedAccountTypeMismatch" />
    <xs:enumeration value="RecalcTimedOut" />
    <xs:enumeration value="LicenseExpired" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="FaultCode" nillable="true" type="tns:FaultCode" />
<xs:complexType name="VectorDiagramRequestContract">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestContract">
      <xs:sequence />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="VectorDiagramRequestContract" nillable="true"
type="tns:VectorDiagramRequestContract" />

```

```

<xs:complexType name="VectorDiagram">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="OutputPage" nillable="true"
type="tns:RenderedPage" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="VectorDiagram" nillable="true" type="tns:VectorDiagram" />
<xs:complexType name="RenderedPage">
  <xs:sequence>
    <xs:element minOccurs="0" name="Resources" nillable="true"
type="tns:ArrayOfDiagramResource" />
    <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Xaml" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="RenderedPage" nillable="true" type="tns:RenderedPage" />
<xs:complexType name="ArrayOfDiagramResource">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DiagramResource"
nillable="true" type="tns:DiagramResource" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfDiagramResource" nillable="true"
type="tns:ArrayOfDiagramResource" />
<xs:complexType name="DiagramResource">
  <xs:sequence>
    <xs:element minOccurs="0" name="ByteData" nillable="true" type="xs:base64Binary" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="DiagramResource" nillable="true" type="tns:DiagramResource" />
</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:attribute name="FactoryType" type="xs:QName" />

```

```

        <xs:attribute name="Id" type="xs:ID" />
        <xs:attribute name="Ref" type="xs:IDREF" />
    </xs:schema>
</wsdl:types>
<wsdl:message name="IVisioGraphicsService_GetRasterDiagram_InputMessage">
    <wsdl:part name="parameters" element="tns:GetRasterDiagram" />
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetRasterDiagram_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetRasterDiagramResponse" />
</wsdl:message>
<wsdl:message
name="IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
r" name="detail" element="q1:VisioGraphicsServiceFault" />
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetVectorDiagram_InputMessage">
    <wsdl:part name="parameters" element="tns:GetVectorDiagram" />
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetVectorDiagram_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetVectorDiagramResponse" />
</wsdl:message>
<wsdl:message
name="IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServe
r" name="detail" element="q2:VisioGraphicsServiceFault" />
</wsdl:message>
<wsdl:portType name="IVisioGraphicsService">
    <wsdl:operation name="GetRasterDiagram">
        <wsdl:input wsam:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagram"
message="tns:IVisioGraphicsService_GetRasterDiagram_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramResponse"
message="tns:IVisioGraphicsService_GetRasterDiagram_OutputMessage" />
        <wsdl:fault
wsam:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramVisioGraphicsServiceFau
ltFault" name="VisioGraphicsServiceFaultFault"
message="tns:IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_FaultMessa
ge" />
    </wsdl:operation>
    <wsdl:operation name="GetVectorDiagram">
        <wsdl:input wsam:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagram"
message="tns:IVisioGraphicsService_GetVectorDiagram_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse"
message="tns:IVisioGraphicsService_GetVectorDiagram_OutputMessage" />
        <wsdl:fault
wsam:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramVisioGraphicsServiceFau
ltFault" name="VisioGraphicsServiceFaultFault"
message="tns:IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMessa
ge" />
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CustomBinding_IVisioGraphicsService" type="tns:IVisioGraphicsService">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="GetRasterDiagram">
        <soap:operation soapAction="http://tempuri.org/IVisioGraphicsService/GetRasterDiagram"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />

```

```

        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="VisioGraphicsServiceFaultFault">
            <soap:fault use="literal" name="VisioGraphicsServiceFaultFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetVectorDiagram">
        <soap:operation soapAction="http://tempuri.org/IVisioGraphicsService/GetVectorDiagram"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="VisioGraphicsServiceFaultFault">
            <soap:fault use="literal" name="VisioGraphicsServiceFaultFault" 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® Server 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.

8 Change Tracking

This section identifies changes that were made to the [MS-VGSP] protocol document between the March 2011 and June 2011 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
2.2.1 Namespaces	Added the namespaces q1, q2, q3, q4.	N	New content added.
2.2.4.1 AddonDataSource (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	Clarified that the "ConnectionString" element contains a fully qualified class name of the data provider.	N	Content updated.
2.2.4.5 VisioGraphicsServiceFault (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	Clarified the dependency on the FaultCode in the Error attribute when determining the correct value of the Flags attribute.	N	Content updated.
2.2.5.1 FaultCode (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	Updated FaultCode information for the values InvalidPageNumber, InvalidFileUrl, and KeyNotFoundFromCol	N	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	lection.		
3.1.4.1.3.2 RasterDiagram (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	Added descriptions for attributes of the CT_Page element that are not specified in the MS-VGSFF structure but that are included in the protocol server response message.	N	New content added.
3.1.4.2.3.3 RenderedPage (from namespace http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer)	Added descriptions for attributes of the CT_Page element that are not specified in the MS-VGSFF structure but that are included in the protocol server response message.	N	New content added.
Z Appendix B: Product Behavior	Updated the list of applicable product versions.	N	Content updated.

9 Index

A

Abstract data model
 [client](#) 28
 [server](#) 19
[AddonDataSource \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\) complex type](#) 13
[Applicability](#) 9
[ArrayOfAddonDataSource \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\) complex type](#) 14
[Attribute groups](#) 18
[Attributes](#) 18

B

[BaseRequestContract \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\) complex type](#) 14

C

[Capability negotiation](#) 9
[Change tracking](#) 62
Client
 [abstract data model](#) 28
 [details](#) 28
 [initialization](#) 28
 [local events](#) 28
 [message processing](#) 28
 [overview](#) 19
 [sequencing rules](#) 28
 [timer events](#) 28
 [timers](#) 28
[Complex types](#) 12
 [AddonDataSource \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\)](#) 13
 [ArrayOfAddonDataSource \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\)](#) 14
 [BaseRequestContract \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\)](#) 14
 [DiagramBase \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\)](#) 15
 [VisioGraphicsServiceFault \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\)](#) 15

D

Data model - abstract

[client](#) 28
 [server](#) 19
[DiagramBase \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\) complex type](#) 15
[Drawing page](#) 8

E

Events
 [local - client](#) 28
 [local - server](#) 28
 [timer - client](#) 28
 [timer - server](#) 28
Examples
 [GetRasterDiagram](#) 29
 [GetVectorDiagram](#) 35
 [GetVectorDiagram with AddonDataSource](#) 37
 [overview](#) 29

F

[FaultCode \(from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>\) simple type](#) 16
[Fields - vendor-extensible](#) 10
[Full WSDL](#) 55

G

[GetRasterDiagram example](#) 29
[GetVectorDiagram example](#) 35
[GetVectorDiagram with AddonDataSource example](#) 37
[Glossary](#) 6
[Groups](#) 18

I

[Implementer - security considerations](#) 54
[Index of security parameters](#) 54
[Informative references](#) 8
Initialization
 [client](#) 28
 [server](#) 19
[Introduction](#) 6

L

Local events
 [client](#) 28
 [server](#) 28

M

Message processing

- [client](#) 28
- [server](#) 19
- Messages
 - [AddOnDataSource](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) complex type 13
 - [ArrayOfAddOnDataSource](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) complex type 14
 - [attribute groups](#) 18
 - [attributes](#) 18
 - [BaseRequestContract](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) complex type 14
 - [complex types](#) 12
 - [DiagramBase](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) complex type 15
 - [elements](#) 12
 - [enumerated](#) 12
 - [FaultCode](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) simple type 16
 - [groups](#) 18
 - [namespaces](#) 11
 - [simple types](#) 16
 - [syntax](#) 11
 - [transport](#) 11
 - [VisioGraphicsServiceFault](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) complex type 15

N

- [Namespaces](#) 11
- [Normative references](#) 6

O

- Operations
 - [GetRasterDiagram](#) 20
 - [GetVectorDiagram](#) 23
- [Overview \(synopsis\)](#) 8
 - [drawing page](#) 8
 - [shape](#) 9
 - [Web drawing](#) 8

P

- [Parameters - security index](#) 54
- [Preconditions](#) 9
- [Prerequisites](#) 9
- [Product behavior](#) 61

R

- References
 - [informative](#) 8
 - [normative](#) 6
 - [Relationship to other protocols](#) 9

S

- Security
 - [implementer considerations](#) 54
 - [parameter index](#) 54
- Sequencing rules
 - [client](#) 28
 - [server](#) 19
- Server
 - [abstract data model](#) 19
 - [details](#) 19
 - [GetRasterDiagram operation](#) 20
 - [GetVectorDiagram operation](#) 23
 - [initialization](#) 19
 - [local events](#) 28
 - [message processing](#) 19
 - [overview](#) 19
 - [sequencing rules](#) 19
 - [timer events](#) 28
 - [timers](#) 19
- [Shape](#) 9
- [Simple types](#) 16
 - [FaultCode](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) 16
- [Standards assignments](#) 10
- Syntax
 - [messages - overview](#) 11

T

- Timer events
 - [client](#) 28
 - [server](#) 28
- Timers
 - [client](#) 28
 - [server](#) 19
- [Tracking changes](#) 62
- [Transport](#) 11
- Types
 - [complex](#) 12
 - [simple](#) 16

V

- [Vendor-extensible fields](#) 10
- [Versioning](#) 9
- [VisioGraphicsServiceFault](#) (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>) complex type 15

W

- [Web drawing](#) 8
- [WSDL](#) 55