

# [MS-REF]: Windows Protocols Master Reference

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## Revision Summary

Date	Revision History	Revision Class	Comments
03/14/2007	1.0	Major	Updated and revised the technical content.
04/10/2007	1.1	Minor	Updated the technical content.
05/18/2007	1.2	Minor	Added additional references
06/08/2007	1.2.1	Editorial	Revised and edited the technical content.
07/10/2007	1.7	Minor	Updated the technical content.
08/17/2007	1.8	Minor	Monthly Release
09/21/2007	1.9	Minor	Updated the technical content.
10/26/2007	2.0	Minor	Monthly Release
01/25/2008	2.1	Minor	Updated the technical content.
03/14/2008	2.2	Minor	Updated the technical content.
06/20/2008	2.3	Minor	Updated the technical content.
07/25/2008	2.4	Minor	Updated the technical content.
08/29/2008	2.5	Minor	Updated the technical content.
10/24/2008	2.6	Minor	Updated the technical content.
12/05/2008	2.7	Minor	Updated the technical content.
01/16/2009	2.8	Minor	Updated the technical content.
02/27/2009	2.8.1	Editorial	Revised and edited the technical content.
04/10/2009	3.0	Major	Updated and revised the technical content.
05/22/2009	4.0	Major	Updated and revised the technical content.
07/02/2009	5.0	Major	Updated and revised the technical content.
08/14/2009	6.0	Major	Updated and revised the technical content.
09/25/2009	7.0	Major	Updated and revised the technical content.
11/06/2009	8.0	Major	Updated and revised the technical content.
12/18/2009	9.0	Major	Updated and revised the technical content.
01/29/2010	10.0	Major	Updated and revised the technical content.
03/12/2010	11.0	Major	Updated and revised the technical content.
04/23/2010	12.0	Major	Updated and revised the technical content.

Date	Revision History	Revision Class	Comments
06/04/2010	13.0	Major	Updated and revised the technical content.
07/16/2010	14.0	Major	Significantly changed the technical content.
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11/19/2010	17.0	Major	Significantly changed the technical content.
01/07/2011	18.0	Major	Significantly changed the technical content.
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06/17/2011	22.0	Major	Significantly changed the technical content.

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[MS-RDSOD] Microsoft Corporation, "Terminal Services (Remote Desktop Services) Overview Document", to be published 2011.

[MS-REF] Microsoft Corporation, "Windows Protocols Master Reference".

[MS-RMPR] Microsoft Corporation, "[Rights Management Services \(RMS\): Client-to-Server Protocol Specification](#)".

[MS-RMPRS] Microsoft Corporation, "[Rights Management Services \(RMS\): Server-to-Server Protocol Specification](#)".

[MS-RMSOD] Microsoft Corporation, "[Rights Management Services Overview Document](#)".

[MS-RNAP] Microsoft Corporation, "[Vendor-Specific RADIUS Attributes for Network Access Protection \(NAP\) Data Structure](#)".

[MS-RPCE] Microsoft Corporation, "[Remote Procedure Call Protocol Extensions](#)".

[MS-RPCH] Microsoft Corporation, "[Remote Procedure Call over HTTP Protocol Specification](#)".

[MS-RPCL] Microsoft Corporation, "[Remote Procedure Call Location Services Extensions](#)".

[MS-RPRN] Microsoft Corporation, "[Print System Remote Protocol Specification](#)".

[MS-RRP] Microsoft Corporation, "[Windows Remote Registry Protocol Specification](#)".

[MS-RSMP] Microsoft Corporation, "[Removable Storage Manager \(RSM\) Remote Protocol Specification](#)".

[MS-RSP] Microsoft Corporation, "[Remote Shutdown Protocol Specification](#)".

[MS-RTSP] Microsoft Corporation, "[Real-Time Streaming Protocol \(RTSP\) Windows Media Extensions](#)".

[MS-RXAD] Microsoft Corporation, "[Remote Experience Advertisement Protocol Specification](#)".

[MS-SAMLPR] Microsoft Corporation, "[Security Assertion Markup Language \(SAML\) Proxy Request Signing Protocol Specification](#)".

[MS-SAMR] Microsoft Corporation, "[Security Account Manager \(SAM\) Remote Protocol Specification \(Client-to-Server\)](#)".

[MS-SAMS] Microsoft Corporation, "[Security Account Manager \(SAM\) Remote Protocol Specification \(Server-to-Server\)](#)".

[MS-SCCSTR] Microsoft Corporation, "[SqlClient Connection String Structure Specification](#)".

[MS-SCMP] Microsoft Corporation, "[Shadow Copy Management Protocol Specification](#)".

[MS-SCMR] Microsoft Corporation, "[Service Control Manager Remote Protocol Specification](#)".

[MS-SCNOD] Microsoft Corporation, "Scenarios Overview Document", to be published 2011.

[MS-SDP] Microsoft Corporation, "[Session Description Protocol \(SDP\) Extensions](#)".

[MS-SECO] Microsoft Corporation, "[Windows Security Overview](#)".

[MS-SFU] Microsoft Corporation, "[Kerberos Protocol Extensions: Service for User and Constrained Delegation Protocol Specification](#)".

[MS-SHLLINK] Microsoft Corporation, "[Shell Link \(.LNK\) Binary File Format](#)".

[MS-SIP] Microsoft Corporation, "[Session Initiation Protocol Extensions](#)".

[MS-SMB] Microsoft Corporation, "[Server Message Block \(SMB\) Protocol Specification](#)".

[MS-SMB2] Microsoft Corporation, "[Server Message Block \(SMB\) Version 2 Protocol Specification](#)".

[MS-SMSOD] Microsoft Corporation, "System Management Services Overview Document", to be published 2011.

[MS-SMTP] Microsoft Corporation, "[NT LAN Manager \(NTLM\) Authentication: Simple Mail Transfer Protocol \(SMTP\) Extension](#)".

[MS-SNTP] Microsoft Corporation, "[Network Time Protocol \(NTP\) Authentication Extensions](#)".

[MS-SOH] Microsoft Corporation, "[Statement of Health for Network Access Protection \(NAP\) Protocol Specification](#)".

[MS-SPNG] Microsoft Corporation, "[Simple and Protected GSS-API Negotiation Mechanism \(SPNEGO\) Extension](#)".

[MS-SRPL] Microsoft Corporation, "[Directory Replication Service \(DRS\) Protocol Extensions for SMTP](#)".

[MS-SRVS] Microsoft Corporation, "[Server Service Remote Protocol Specification](#)".

[MS-SSTP] Microsoft Corporation, "[Secure Socket Tunneling Protocol \(SSTP\) Specification](#)".

[MS-STOREOD] Microsoft Corporation, "Storage and Clustering Overview Document", to be published 2011.

[MS-SYS] Roadmap If reference is in [MS-SYS] section 1.1 through 1.1.25, see [MS-GLOS].

If reference is in [MS-SYS] section 1.2, see [MS-REF].

If reference is in [MS-SYS] section 2, see [MS-DTYP].

If reference is in [MS-SYS] section 3 through 3.4, see the second reference for [MS-SYS].

If reference is in [MS-SYS] section 3.6, see [MS-LCID].

If reference is in [MS-SYS] section 4, see [MS-ERREF].



If reference is in [MS-SYS] section 5, see [MS-INDEX].

- [MS-SYS] Microsoft Corporation, "[Windows System Overview](#)".
- [MS-TAIL] Microsoft Corporation, "[Telephony API Internet Locator Service Protocol Specification](#)".
- [MS-TDS] Microsoft Corporation, "[Tabular Data Stream Protocol Specification](#)".
- [MS-TIPP] Microsoft Corporation, "[Transaction Internet Protocol \(TIP\) Extensions](#)".
- [MS-TLSP] Microsoft Corporation, "[Transport Layer Security \(TLS\) Profile](#)".
- [MS-TPSO] Microsoft Corporation, "[Transaction Processing Services System Overview](#)".
- [MS-TRP] Microsoft Corporation, "[Telephony Remote Protocol Specification](#)".
- [MS-TSCH] Microsoft Corporation, "[Task Scheduler Service Remoting Protocol Specification](#)".
- [MS-TSGU] Microsoft Corporation, "[Terminal Services Gateway Server Protocol Specification](#)".
- [MS-TSTS] Microsoft Corporation, "[Terminal Services Terminal Server Runtime Interface Protocol Specification](#)".
- [MS-TVTT] Microsoft Corporation, "[Telnet: VTNT Terminal Type Format Data Structure](#)".
- [MS-UCODEREF] Microsoft Corporation, "[Windows Protocols Unicode Reference](#)".
- [MS-UNMP] Microsoft Corporation, "[User Name Mapping Protocol Specification](#)".
- [MS-V4OF] Microsoft Corporation, "[IPv4 Over IEEE 1394 Protocol Extensions](#)".
- [MS-VDS] Microsoft Corporation, "[Virtual Disk Service \(VDS\) Protocol Specification](#)".
- [MS-W32T] Microsoft Corporation, "[W32Time Remote Protocol Specification](#)".
- [MS-WCCE] Microsoft Corporation, "[Windows Client Certificate Enrollment Protocol Specification](#)".
- [MS-WDSMT] Microsoft Corporation, "[Windows Deployment Services Multicast Transport Protocol Specification](#)".
- [MS-WDV] Microsoft Corporation, "[Web Distributed Authoring and Versioning \(WebDAV\) Protocol: Client Extensions](#)".
- [MS-WDVME] Microsoft Corporation, "[Web Distributed Authoring and Versioning \(WebDAV\) Protocol: Microsoft Extensions](#)".
- [MS-WDVSE] Microsoft Corporation, "[Web Distributed Authoring and Versioning \(WebDAV\) Protocol: Server Extensions](#)".
- [MS-WEBOD] Microsoft Corporation, "Web Server Overview Document", to be published 2011.
- [MS-WFIM] Microsoft Corporation, "[Workflow Instance Management Protocol Specification](#)".
- [MS-WINSRA] Microsoft Corporation, "[Windows Internet Naming Service \(WINS\) Replication and Autodiscovery Protocol Specification](#)".
- [MS-WKST] Microsoft Corporation, "[Workstation Service Remote Protocol Specification](#)".
- [MS-WMF] Microsoft Corporation, "[Windows Metafile Format](#)".

[MS-WMHTTP] Microsoft Corporation, "[Windows Media HTTP Push Distribution Protocol Specification](#)".

[MS-WMI] Microsoft Corporation, "[Windows Management Instrumentation Remote Protocol Specification](#)".

[MS-WMIO] Microsoft Corporation, "[Windows Management Instrumentation Encoding Version 1.0 Protocol Specification](#)".

[MS-WMSO] Microsoft Corporation, "[Windows Management Services System Overview](#)".

[MS-WMSP] Microsoft Corporation, "[Windows Media HTTP Streaming Protocol Specification](#)".

[MS-WPRN] Microsoft Corporation, "[Web Point-and-Print Protocol Specification](#)".

[MS-WSDS] Microsoft Corporation, "[WS-Enumeration: Directory Services Protocol Extensions](#)".

[MS-WSH] Microsoft Corporation, "[Windows Security Health Agent \(WSHA\) and Windows Security Health Validator \(WSHV\) Protocol Specification](#)".

[MS-WSMAN] Microsoft Corporation, "[Web Services Management Protocol Extensions for Windows Server 2003](#)".

[MS-WSMV] Microsoft Corporation, "[Web Services Management Protocol Extensions for Windows Vista](#)".

[MS-WSO] Microsoft Corporation, "[Windows System Overview](#)".

[MS-WSOD] Microsoft Corporation, "Windows System Overview Document", to be published 2011.

[MS-WSP] Microsoft Corporation, "[Windows Search Protocol Specification](#)".

[MS-WSPELD] Microsoft Corporation, "[WS-Transfer and WS-Enumeration Protocol Extension for Lightweight Directory Access Protocol v3 Controls Specification](#)".

[MS-WSPOL] Microsoft Corporation, "[Web Services: Policy Assertions and WSDL Extensions](#)".

[MS-WSRVCAT] Microsoft Corporation, "[WS-AtomicTransaction \(WS-AT\) Version 1.0 Protocol Extensions](#)".

[MS-WSRVCRM] Microsoft Corporation, "[WS-ReliableMessaging Protocol: Advanced Flow Control Extension](#)".

[MS-WSRVCRR] Microsoft Corporation, "[WS-ReliableMessaging Protocol: Reliable Request-Reply Extension](#)".

[MS-WSSEC] Microsoft Corporation, "[Web Services: Security Policy Assertions Format](#)".

[MS-WSSO] Microsoft Corporation, "[Windows SharePoint Services Overview](#)".

[MS-WSSFO] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Protocol Specification](#)".

[MS-WSSFO2] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Version 2 Protocol Specification](#)".

[MS-WSSFOB] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Base Protocol Specification](#)".

[MS-WSTC] Microsoft Corporation, "[WS-Discovery: Termination Criteria Protocol Extensions](#)".

[MS-WSTEP] Microsoft Corporation, "[WS-Trust X.509v3 Token Enrollment Extensions](#)".

[MS-WSTIM] Microsoft Corporation, "[WS-Transfer: Identity Management Operations for Directory Access Extensions](#)".

[MS-WSUSO] Microsoft Corporation, "[Windows Server Update Services System Overview](#)".

[MS-WSUSOD] Microsoft Corporation, "[Windows Server Update Services Overview Document](#)".

[MS-WSUSSH] Microsoft Corporation, "[Windows Update Services: Server-Server Protocol Specification](#)".

[MS-WUSP] Microsoft Corporation, "[Windows Update Services: Client-Server Protocol Specification](#)".

[MS-XCEP] Microsoft Corporation, "[X.509 Certificate Enrollment Policy Protocol Specification](#)".

[MS-XOPP] Microsoft Corporation, "[XML-binary Optimized Packaging \(XOP\) Profile](#)".

## 4 Change Tracking

This section identifies changes that were made to the [MS-REF] protocol document between the May 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](mailto:protocol@microsoft.com).

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">3 Internal References</a>	Added [MS-CERSOD].	Y	Content updated.
<a href="#">3 Internal References</a>	Added [MS-WSUSO].	Y	Content updated.
<a href="#">3 Internal References</a>	Updated [MC-FPSEWM].	Y	Content updated.