

# [MS-OFREF]: Microsoft Office Master Reference

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## Revision Summary

Date	Revision History	Revision Class	Comments
04/04/2008	0.1		Initial Availability.
06/27/2008	1.0	Major	Added technical content for format documentation.
12/12/2008	1.01	Editorial	Revised and edited the technical content.
03/18/2009	1.02	Major	Added technical content for protocol documentation.
07/13/2009	1.03	Major	Revised and edited the technical content.
08/28/2009	1.04	Editorial	Revised and edited the technical content.
11/06/2009	1.05	Major	Revised, edited and added technical content.
02/19/2010	1.06	Major	Revised, edited and added technical content.
03/31/2010	1.07	Major	Revised, edited and added technical content.
04/30/2010	1.08	Major	Revised, edited and added technical content.
06/07/2010	1.09	Major	Revised, edited and added technical content.
06/29/2010	1.10	Minor	Clarified the meaning of the technical content.
07/23/2010	1.11	Major	Significantly changed the technical content.
09/27/2010	1.12	Major	Significantly changed the technical content.
11/15/2010	1.13	Major	Significantly changed the technical content.
12/17/2010	1.14	Major	Significantly changed the technical content.
03/18/2011	2.0	Major	Significantly changed the technical content.
06/10/2011	3.0	Major	Significantly changed the technical content.
01/20/2012	4.0	Major	Significantly changed the technical content.
04/11/2012	5.0	Major	Significantly changed the technical content.
07/16/2012	6.0	Major	Significantly changed the technical content.
10/08/2012	7.0	Major	Significantly changed the technical content.
02/11/2013	8.0	Major	Significantly changed the technical content.
07/30/2013	9.0	Major	Significantly changed the technical content.
11/18/2013	10.0	Major	Significantly changed the technical content.
02/10/2014	11.0	Major	Significantly changed the technical content.

<b>Date</b>	<b>Revision History</b>	<b>Revision Class</b>	<b>Comments</b>
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[MS-CSS21] Microsoft Corporation, "[Internet Explorer Cascading Stylesheets \(CSS\) 2.1 Standards Support Document](#)".

[MS-CSS21E] Microsoft Corporation, "[Internet Explorer Extensions to the Cascading Style Sheets \(CSS\) 2.1 Specification](#)".

[MS-CSS3COLR] Microsoft Corporation, "[Internet Explorer CSS Color Module Level 3 Standards Support](#)".

[MS-CSS3MQ] Microsoft Corporation, "[Internet Explorer CSS Media Queries Module Level 3 Standards Support](#)".

[MS-CSS3NS] Microsoft Corporation, "[Internet Explorer CSS3 Namespaces Module Standards Support](#)".

[MS-CSS3SEL] Microsoft Corporation, "[Internet Explorer Selectors Level 3 Module Standards Support](#)".

[MS-CSSATTR] Microsoft Corporation, "[Internet Explorer CSS Style Attributes Standards Support Document](#)".

[MS-CTDOC] Microsoft Corporation, "[Word Custom Toolbar Binary File Format Structure Specification](#)".

[MS-CTXLS] Microsoft Corporation, "[Excel Custom Toolbar Binary File Format Structure Specification](#)".

[MS-CUSTOMUI2] Microsoft Corporation, "[Custom UI XML Markup Version 2 Specification](#)".

[MS-DADMWS] Microsoft Corporation, "[Search Admin Web Service Protocol](#)".

[MS-DLX] Microsoft Corporation, "[Distribution List Expansion Protocol](#)".

[MS-DMCSOM] Microsoft Corporation, "[Document Management Client-Side Object Model Protocol](#)".

[MS-DOC] Microsoft Corporation, "[Word Binary File Format \(.doc\) Structure Specification](#)".

[MS-DOCSWS] Microsoft Corporation, "[SharePoint Document Sharing Web Service Protocol](#)".

[MS-DOCTRANS] Microsoft Corporation, "[Document Transforms Service Protocol](#)".

[MS-DOCX] Microsoft Corporation, "[Word Extensions to the Office Open XML File Format \(.docx\) Specification](#)".

[MS-DOM1] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) Level 1 Standards Support Document](#)".

[MS-DOM1X] Microsoft Corporation, "[Microsoft XML Document Object Model \(DOM\) Level 1 Standards Support](#)".

[MS-DOM2C] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) Level 2 Core Standards Support Document](#)".

[MS-DOM2CE] Microsoft Corporation, "[Internet Explorer Extensions to the Document Object Model \(DOM\) Level 2 Core Specification](#)".

[MS-DOM2CEX] Microsoft Corporation, "[Microsoft XML Extensions to the Document Object Model \(DOM\) Level 2 Core Specification](#)".

[MS-DOM2CX] Microsoft Corporation, "[Microsoft XML Document Object Model \(DOM\) Level 2 Core Standards Support](#)".

[MS-DOM2E] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) Level 2 Events Standards Support Document](#)".

[MS-DOM2EE] Microsoft Corporation, "[Internet Explorer Extensions to the DOM Level 2 Events Specification](#)".

[MS-DOM2H] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) Level 2 HTML Standards Support Document](#)".

[MS-DOM2S] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) Level 2 Standards Support Document](#)".

[MS-DOM2TR] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) L2 Traversal and Range Standards Support Document](#)".

[MS-DOM2V] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) Level 2 Views Standards Support Document](#)".

[MS-DOM3C] Microsoft Corporation, "[Internet Explorer Document Object Model \(DOM\) Level 3 Core Standards Support Document](#)".

[MS-DPRDL] Microsoft Corporation, "[Report Definition Language Data Portability Overview](#)".

[MS-DPSP] Microsoft Corporation, "[Digest Protocol Extensions](#)".

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

[MS-DSPSTSS] Microsoft Corporation, "[Data-Source Adapter SharePoint Team Services Web Service Protocol](#)".

[MS-DTMF] Microsoft Corporation, "[RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals Extensions](#)".

[MS-DTYP] Microsoft Corporation, "[Windows Data Types](#)".

[MS-DWSS] Microsoft Corporation, "[Document Workspace Web Service Protocol](#)".

[MS-E911WS] Microsoft Corporation, "[Web Service for E911 Support Protocol](#)".

[MS-EAWF] Microsoft Corporation, "[Group Approval Web Service Protocol](#)".

[MS-ECMA402] Microsoft Corporation, "[Internet Explorer ECMAScript Internationalization API Standards Support Document](#)".

[MS-ECTPWPS] Microsoft Corporation, "[External Content Type Picker Web Service Protocol](#)".

[MS-EDCSOM] Microsoft Corporation, "[eDiscovery Client-Side Object Model Protocol](#)".

[MS-EDINTWS] Microsoft Corporation, "[eDiscovery Internal Web Service Protocol](#)".

[MS-EDSA] Microsoft Corporation, "[eDiscovery Service Application Protocol](#)".

[MS-ELTRAV] Microsoft Corporation, "[Internet Explorer Element Traversal Standards Support](#)".

[MS-EMF] Microsoft Corporation, "[Enhanced Metafile Format](#)".

[MS-EMMCOSM] Microsoft Corporation, "[Enterprise Managed Metadata Client-Side Object Model Protocol](#)".

[MS-EMMWCF] Microsoft Corporation, "[Metadata Shared Service WCF Service Protocol](#)".

[MS-EMMWS] Microsoft Corporation, "[Microsoft Enterprise Managed Metadata Web Service Protocol](#)".

[MS-ERREF] Microsoft Corporation, "[Windows Error Codes](#)".

[MS-ES3] Microsoft Corporation, "[Internet Explorer ECMA-262 ECMAScript Language Specification Standards Support Document](#)".

[MS-ES3EX] Microsoft Corporation, "[Microsoft JScript Extensions to the ECMAScript Language Specification 3rd Edition](#)".

[MS-ES5] Microsoft Corporation, "[Internet Explorer ECMA-262 ECMAScript Language Specification Fifth Edition Standards Support Document](#)".

[MS-ES51] Microsoft Corporation, "[Internet Explorer ECMA-262 ECMAScript Language Specification \(5.1 Edition\) Standards Support](#)".

[MS-ES5EX] Microsoft Corporation, "[Microsoft Internet Explorer Extensions to the ECMAScript Language Specification Fifth Edition](#)".

[MS-ESP] Microsoft Corporation, "[Excel Web Services Protocol](#)".

[MS-ESREST] Microsoft Corporation, "[Excel Services REST Protocol](#)".

[MS-ESURL] Microsoft Corporation, "[Excel Services Publishing Protocol](#)".

[MS-EUMR] Microsoft Corporation, "[Routing to Exchange Unified Messaging Extensions](#)".

[MS-EUMSDP] Microsoft Corporation, "[Session Description Protocol Extension for Exchange Unified Messaging](#)".

[MS-EXSPWS] Microsoft Corporation, "[Excel Calculation Web Service Protocol](#)".

[MS-EXSPWS2] Microsoft Corporation, "[Excel Calculation Web Service Version 2 Protocol](#)".

[MS-EXSPWS3] Microsoft Corporation, "[Excel Calculation Web Service Version 3 Protocol](#)".

[MS-EXSPXML] Microsoft Corporation, "[Excel Calculation Web Service XML Schema Specification](#)".

[MS-EXSPXML3] Microsoft Corporation, "[Excel Calculation Version 2 Web Service XML Schema](#)".

[MS-FORMS] Microsoft Corporation, "[Forms Service Protocol](#)".

[MS-FPSE] Microsoft Corporation, "[FrontPage Server Extensions Remote Protocol](#)".

[MS-FQL2] Microsoft Corporation, "[Fast Query Language Version 2 Protocol](#)".

[MS-FSDAP] Microsoft Corporation, "[Forms Services Design and Activation Web Service Protocol](#)".

[MS-FSFDP] Microsoft Corporation, "[Forms Services Feature Detection Protocol](#)".

[MS-FSPD] Microsoft Corporation, "[Forms Services Proxy Web Service Protocol](#)".

[MS-FSSHHTTP] Microsoft Corporation, "[File Synchronization via SOAP over HTTP Protocol](#)".

[MS-FSSHHTTPB] Microsoft Corporation, "[Binary Requests for File Synchronization via SOAP Protocol](#)".

[MS-FSSHHTTPD] Microsoft Corporation, "[Binary Data Format for File Synchronization via SOAP Structure Specification](#)".

[MS-GEOLOC] Microsoft Corporation, "[Internet Explorer Geolocation API Standards Support Document](#)".

[MS-GLOADWS] Microsoft Corporation, "[Global Admin Web Service Protocol](#)".

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

[MS-GRVDYNDM] Microsoft Corporation, "[Groove Dynamics Protocol](#)".

[MS-GRVHENC] Microsoft Corporation, "[HTTP Encapsulation of Simple Symmetric Transport Protocol \(SSTP\) Protocol](#)".

[MS-GRVPROT] Microsoft Corporation, "[Groove Protocols Overview](#)".

[MS-GRVRDB] Microsoft Corporation, "[Groove RDB Commands Protocol](#)".

[MS-GRVSPCM] Microsoft Corporation, "[Client to Management Server Groove SOAP Protocol](#)".

[MS-GRVSPMR] Microsoft Corporation, "[Management Server to Relay Server Groove SOAP Protocol](#)".

[MS-GRVSSTP] Microsoft Corporation, "[Simple Symmetric Transport Protocol \(SSTP\)](#)".

[MS-GRVSSTPS] Microsoft Corporation, "[Simple Symmetric Transport Protocol \(SSTP\) Security Protocol](#)".

[MS-GRVWDPP] Microsoft Corporation, "[Wide Area Network Device Presence Protocol \(WAN DPP\)](#)".

[MS-H264PF] Microsoft Corporation, "[RTP Payload Format for H.264 Video Streams Extensions](#)".

[MS-H26XPF] Microsoft Corporation, "[Real-Time Transport Protocol \(RTP/RTCP\): H.261 and H.263 Video Streams Extensions](#)".

[MS-HIREST] Microsoft Corporation, "[Internet Explorer High Resolution Time Standards Support Document](#)".

[MS-HTML401] Microsoft Corporation, "[Internet Explorer HTML 4.01 Standards Support Document](#)".

[MS-HTML401E] Microsoft Corporation, "[Internet Explorer Extensions to the HTML 4.01 Specification](#)".

[MS-ICE] Microsoft Corporation, "[Interactive Connectivity Establishment \(ICE\) Extensions](#)".

[MS-ICE2] Microsoft Corporation, "[Interactive Connectivity Establishment \(ICE\) Extensions 2.0](#)".

[MS-ICE2BWM] Microsoft Corporation, "[Interactive Connectivity Establishment \(ICE\) 2.0 Bandwidth Management Extensions](#)".

[MS-IEDOCO] Microsoft Corporation, "[Internet Explorer Web Standards Documentation Overview](#)".

[MS-IMAGS] Microsoft Corporation, "[Imaging Service Protocol](#)".

[MS-IMESYN] Microsoft Corporation, "[IMESync Syntax Structure](#)".

[MS-INFODCF] Microsoft Corporation, "[InfoPath Data Connection File Download Protocol](#)".

[MS-IPDSP] Microsoft Corporation, "[InfoPath Digital Signing Protocol](#)".

[MS-IPFF] Microsoft Corporation, "[InfoPath Form Template Format](#)".

[MS-IPFF2] Microsoft Corporation, "[InfoPath Form Template Format Version 2](#)".

[MS-IPFFX] Microsoft Corporation, "[InfoPath Form File Format](#)".

[MS-ISO10646] Microsoft Corporation, "[Internet Explorer ISO 10646 Universal Character Set Standards Support Document](#)".

[MS-ISO8859] Microsoft Corporation, "[Internet Explorer ISO 8859 8-bit Single Byte Code Graphic Character Sets Standards Support Document](#)".

[MS-JPEG] Microsoft Corporation, "[Internet Explorer ISO 10918-1 Image Compression and Encoding Standards Support](#)".

[MS-KILE] Microsoft Corporation, "[Kerberos Protocol Extensions](#)".

[MS-KQL] Microsoft Corporation, "[Keyword Query Language Structure Protocol](#)".

[MS-LCID] Microsoft Corporation, "[Windows Language Code Identifier \(LCID\) Reference](#)".

[MS-LISTWS] Microsoft Corporation, "[Lists Web Service Protocol](#)".

[MS-MAR] Microsoft Corporation, "[Microsoft Office SharePoint Server \(MOSS\) Analytics Reporting Protocol](#)".

[MS-MEETS] Microsoft Corporation, "[Meetings Web Services Protocol](#)".

[MS-MERX] Microsoft Corporation, "[Microsoft Error Reporting Extension to Corporate Error Reporting Version 1.0 Protocol](#)".

[MS-METAWEB] Microsoft Corporation, "[MetaWeblog Extensions Protocol](#)".

[MS-MQSD] Microsoft Corporation, "[Message Queuing \(MSMQ\): Directory Service Discovery Protocol](#)".

[MS-NAVTIM] Microsoft Corporation, "[Internet Explorer Navigation Timing Standards Support Document](#)".

[MS-NETTR] Microsoft Corporation, "[.NET Tracing Protocol](#)".

[MS-NLMP] Microsoft Corporation, "[NT LAN Manager \(NTLM\) Authentication Protocol](#)".

[MS-NOTESWS] Microsoft Corporation, "[MS Search Lotus Notes Web Service Protocol](#)".

[MS-NRBF] Microsoft Corporation, "[.NET Remoting: Binary Format Data Structure](#)".

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

[MS-NTHT] Microsoft Corporation, "[NTLM Over HTTP Protocol](#)".

[MS-OAUT] Microsoft Corporation, "[OLE Automation Protocol](#)".

[MS-OAUTH2EX] Microsoft Corporation, "[OAuth 2.0 Authentication Protocol Extensions](#)".

[MS-OBPAS] Microsoft Corporation, "[Office Broadcast Participant Service](#)".

[MS-OBPRS] Microsoft Corporation, "[Office Broadcast Presentation Service](#)".

[MS-OCAUTHWS] Microsoft Corporation, "[OC Authentication Web Service Protocol](#)".

[MS-OCDISCWS] Microsoft Corporation, "[Lync Autodiscover Web Service Protocol](#)".

[MS-OCER] Microsoft Corporation, "[Client Error Reporting Protocol](#)".

[MS-OCEXUM] Microsoft Corporation, "[Call Control for Exchange Unified Messaging Protocol Extensions](#)".

[MS-OCGCWEB] Microsoft Corporation, "[Persistent Chat Web Protocol](#)".

[MS-OCPROTO] Microsoft Corporation, "[Office Client Protocols Overview](#)".

[MS-OC PSTN] Microsoft Corporation, "[Session Initiation Protocol \(SIP\) for PSTN Calls Extensions](#)".

[MS-OCSMP] Microsoft Corporation, "[Microsoft Online Conference Scheduling and Management Protocol](#)".

[MS-OCSPROT] Microsoft Corporation, "[Lync and Lync Server Protocols Overview](#)".

[MS-ODATA] Microsoft Corporation, "[Open Data Protocol \(OData\)](#)".

[MS-ODBCSTR] Microsoft Corporation, "[ODBC Connection String Structure](#)".

[MS-ODCFF] Microsoft Corporation, "[Office Data Connection File Format Structure Specification](#)".

[MS-ODRAW] Microsoft Corporation, "[Office Drawing Binary File Format Structure Specification](#)".

[MS-ODRAWXML] Microsoft Corporation, "[Office Drawing Extensions to Office Open XML Structure Specification](#)".

[MS-OE376] Microsoft Corporation, "[Office Implementation Information for ECMA-376 Standards Support](#)".

[MS-OFBA] Microsoft Corporation, "[Office Forms Based Authentication Protocol](#)".

[MS-OFFCRYPTO] Microsoft Corporation, "[Office Document Cryptography Structure](#)".

[MS-OFFICIALFILE] Microsoft Corporation, "[Official File Web Service Protocol](#)".

[MS-OFFMACRO] Microsoft Corporation, "[Office Macro-Enabled File Format Specification](#)".

[MS-OFFMACRO2] Microsoft Corporation, "[Office Macro-Enabled File Format Version 2 Structure Specification](#)".

[MS-OFORMS] Microsoft Corporation, "[Office Forms Binary File Format\(s\)](#)".

[MS-OGRAPH] Microsoft Corporation, "[Office Graph Binary File Format](#)".

[MS-OI29500] Microsoft Corporation, "[Office Implementation Information for ISO/IEC 29500 Standards Support](#)".

[MS-OLEDBSTR] Microsoft Corporation, "[OLEDB Connection String Structure](#)".

[MS-OLEDS] Microsoft Corporation, "[Object Linking and Embedding \(OLE\) Data Structures](#)".

[MS-OLEPS] Microsoft Corporation, "[Object Linking and Embedding \(OLE\) Property Set Data Structures](#)".

[MS-OMPWHP] Microsoft Corporation, "[Office Mobile PowerPoint Web Handler Protocol](#)".

[MS-OMS] Microsoft Corporation, "[Office Mobile Service Protocol](#)".

[MS-OMWWH] Microsoft Corporation, "[Office Mobile Word Web Handler Protocol](#)".

[MS-ONE] Microsoft Corporation, "[OneNote File Format Specification](#)".

[MS-ONESTORE] Microsoft Corporation, "[OneNote Revision Store File Format Specification](#)".

[MS-ODDF] Microsoft Corporation, "[Office Implementation Information for ODF 1.1 Standards Support](#)".

[MS-ODDF3] Microsoft Corporation, "[Office Implementation Information for ODF 1.2 Standards Support](#)".

[MS-OOWQWS] Microsoft Corporation, "[Office Online Web Query Web Service Protocol](#)".

[MS-OSALER] Microsoft Corporation, "[Alerts Interoperability Protocol](#)".

[MS-OSCO] Microsoft Corporation, "[Office Server ClickOnce Manifest Structure Specification](#)".

[MS-OSHARED] Microsoft Corporation, "[Office Common Data Types and Objects Structures](#)".

[MS-OUTSPS] Microsoft Corporation, "[Lists Client Sync Protocol](#)".

[MS-OVBA] Microsoft Corporation, "[Office VBA File Format Structure](#)".

[MS-OWEMXML] Microsoft Corporation, "[Office Web Extensibility Manifest Format](#)".

[MS-OWEXML] Microsoft Corporation, "[Office Web Extensibility Extensions to Office Open XML Structure Specification](#)".

[MS-OXCDATA] Microsoft Corporation, "[Data Structures](#)".

[MS-OXCFOLD] Microsoft Corporation, "[Folder Object Protocol](#)".

[MS-OXCMSG] Microsoft Corporation, "[Message and Attachment Object Protocol](#)".

[MS-OXOCNTC] Microsoft Corporation, "[Contact Object Protocol](#)".

[MS-OXOMSG] Microsoft Corporation, "[Email Object Protocol](#)".

[MS-OXPROPS] Microsoft Corporation, "[Exchange Server Protocols Master Property List](#)".



[MS-OXPROTO] Microsoft Corporation, "[Exchange Server Protocols System Overview](#)".

[MS-OXWUMS] Microsoft Corporation, "[Voice Mail Settings Web Service Protocol](#)".

[MS-P3P] Microsoft Corporation, "[Internet Explorer Platform for Privacy Preferences \(P3P\) Standards Support Document](#)".

[MS-PAGEVIS] Microsoft Corporation, "[Internet Explorer Page Visibility Standards Support Document](#)".

[MS-PASCWS] Microsoft Corporation, "[PowerPoint Automation Services Conversion Web Service Protocol](#)".

[MS-PASS] Microsoft Corporation, "[Passport Server Side Include \(SSI\) Version 1.4 Protocol](#)".

[MS-PCCRC] Microsoft Corporation, "[Peer Content Caching and Retrieval: Content Identification](#)".

[MS-PEOPS] Microsoft Corporation, "[People Web Service Protocol](#)".

[MS-PERFTL] Microsoft Corporation, "[Internet Explorer Performance Timeline Standards Support Document](#)".

[MS-PERMS] Microsoft Corporation, "[Permissions Web Service Protocol](#)".

[MS-PICSL] Microsoft Corporation, "[Internet Explorer PICS Label Standards Support Document](#)".

[MS-PICSRL] Microsoft Corporation, "[Internet Explorer PICS Rules Standards Support Document](#)".

[MS-PICSRs] Microsoft Corporation, "[Internet Explorer PICS Rating Services and Systems Standards Support Document](#)".

[MS-PLSP] Microsoft Corporation, "[Published Links Web Service Protocol](#)".

[MS-PNG] Microsoft Corporation, "[Internet Explorer Portable Network Graphics \(PNG\) Standards Support Document](#)".

[MS-PPSAPP] Microsoft Corporation, "[PerformancePoint Services Application Server Protocol](#)".

[MS-PPSAS] Microsoft Corporation, "[PerformancePoint Services Authoring Service Protocol](#)".

[MS-PPSDECO] Microsoft Corporation, "[PerformancePoint Services Decomposition Tree Protocol](#)".

[MS-PPT] Microsoft Corporation, "[PowerPoint Binary File Format \(.ppt\) Structure Specification](#)".

[MS-PPTX] Microsoft Corporation, "[PowerPoint Extensions to the Office Open XML File Format \(.pptx\) Specification](#)".

[MS-PRES] Microsoft Corporation, "[Presence Protocol](#)".

[MS-PRIMEPF] Microsoft Corporation, "[Deployment Package Format Specification](#)".

[MS-PRSTFR] Microsoft Corporation, "[ADO XML Persistence Format Protocol Specification](#)".

[MS-PSOM] Microsoft Corporation, "[PSOM Shared Object Messaging Protocol](#)".

[MS-PUBCSOM] Microsoft Corporation, "[Publishing Client-Side Object Model Protocol](#)".

[MS-PUBWS] Microsoft Corporation, "[Publishing Web Service Protocol](#)".

[MS-PWBDPS] Microsoft Corporation, "[PowerPoint Web Broadcast Discovery Protocol](#)".

[MS-PWBHPS] Microsoft Corporation, "[PowerPoint Web Broadcast Host Protocol](#)".

[MS-PWBPS] Microsoft Corporation, "[PowerPoint Web Broadcast Protocol](#)".

[MS-PWEDPS] Microsoft Corporation, "[PowerPoint Web Editor Data Protocol](#)".

[MS-PWPHP] Microsoft Corporation, "[PowerPoint Web Presentation Handler Protocol](#)".

[MS-PWVPDP] Microsoft Corporation, "[PowerPoint Web Viewer Presentation Data Protocol](#)".

[MS-PWVRSC] Microsoft Corporation, "[PowerPoint Web Viewer Rendered Static Content Structure Specification](#)".

[MS-QoE] Microsoft Corporation, "[Quality of Experience Monitoring Server Protocol](#)".

[MS-QSSWS] Microsoft Corporation, "[Search Query Shared Services Protocol](#)".

[MS-RDC] Microsoft Corporation, "[Remote Differential Compression Algorithm](#)".

[MS-RDL] Microsoft Corporation, "[Report Definition Language File Format](#)".

[MS-RDPBCGR] Microsoft Corporation, "[Remote Desktop Protocol: Basic Connectivity and Graphics Remoting](#)".

[MS-RDPEMC] Microsoft Corporation, "[Remote Desktop Protocol: Multiparty Virtual Channel Extension](#)".

[MS-RGSWS] Microsoft Corporation, "[Response Group Service Web Service Protocol](#)".

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

[MS-RMSI] Microsoft Corporation, "[Rights Management Services \(RMS\): ISV Extension Protocol](#)".

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

[MS-RTASPF] Microsoft Corporation, "[RTP Payload Format for Application Sharing Extensions](#)".

[MS-RTP] Microsoft Corporation, "[Real-time Transport Protocol \(RTP\) Extensions](#)".

[MS-RTPRADEx] Microsoft Corporation, "[RTP Payload for Redundant Audio Data Extensions](#)".

[MS-RTVPF] Microsoft Corporation, "[RTP Payload Format for RT Video Streams Extensions](#)".

[MS-RUBY] Microsoft Corporation, "[Internet Explorer Ruby Annotation Standards Support Document](#)".

[MS-SADMWS] Microsoft Corporation, "[Search Site Administration Web Service Protocol](#)".

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

[MS-SDPEXT] Microsoft Corporation, "[Session Description Protocol \(SDP\) Version 2.0 Extensions](#)".

[MS-SEARCH] Microsoft Corporation, "[Search Protocol](#)".

[MS-SELAPI1] Microsoft Corporation, "[Internet Explorer Selectors API Level 1 Standards Support Document](#)".

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

[MS-SHDACCWS] Microsoft Corporation, "[Shared Access Web Service Protocol](#)".

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

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

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

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

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

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

[MS-SITED3S] Microsoft Corporation, "[Site Data 2003 Web Service Protocol](#)".

[MS-SITEDATS] Microsoft Corporation, "[Site Data Web Service Protocol](#)".

[MS-SITESS] Microsoft Corporation, "[Sites Web Service Protocol](#)".

[MS-SLIDELI] Microsoft Corporation, "[Slide Library Web Service Protocol](#)".

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

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

[MS-SMB2] Microsoft Corporation, "[Server Message Block \(SMB\) Protocol Versions 2 and 3](#)".

[MS-SOCCSOM] Microsoft Corporation, "[SharePoint Social Client-Side Object Model Protocol](#)".

[MS-SPACSOM] Microsoft Corporation, "[SharePoint Analytics Client-Side Object Model Protocol](#)".

[MS-SPAFWI] Microsoft Corporation, "[SharePoint Activity Feed Web Interfaces Protocol](#)".

[MS-SPASA] Microsoft Corporation, "[SharePoint Analytics Service Application Protocol](#)".

[MS-SPDIAG] Microsoft Corporation, "[SharePoint Diagnostics Web Service Protocol](#)".

[MS-SPEMAWS] Microsoft Corporation, "[SharePoint Email Web Service Protocol](#)".

[MS-SPLCHK] Microsoft Corporation, "[SpellCheck Web Service Protocol](#)".

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

[MS-SPO] Microsoft Corporation, "[SharePoint Products and Technologies Protocols Overview](#)".

[MS-SPPTC] Microsoft Corporation, "[User Code Execution Protocol](#)".

[MS-SPRSS] Microsoft Corporation, "[RSS 2.0 Format Extensions Specification](#)".

[MS-SPS2SAUTH] Microsoft Corporation, "[OAuth 2.0 Authentication Protocol: SharePoint Profile](#)".

[MS-SPSCRWL] Microsoft Corporation, "[SPSCrawl Web Service Protocol](#)".

[MS-SPSETWS] Microsoft Corporation, "[SharePoint Subscription Settings Web Service Protocol](#)".

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

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

[MS-SPWFCSOM] Microsoft Corporation, "[SharePoint Workflow Client-Side Object Model Protocol](#)".

[MS-SQMCS] Microsoft Corporation, "[Software Quality Metrics \(SQM\) Client-to-Service Version 1 Protocol](#)".

[MS-SQP] Microsoft Corporation, "[MSSearch Query Protocol](#)".

[MS-SQP2] Microsoft Corporation, "[MSSearch Query Version 2 Protocol](#)".

[MS-SRCHCSOM] Microsoft Corporation, "[Search Client Query Protocol](#)".

[MS-SRTP] Microsoft Corporation, "[Secure Real-time Transport Protocol \(SRTP\) Extensions](#)".

[MS-SSAS] Microsoft Corporation, "[SQL Server Analysis Services Protocol](#)".

[MS-SSDL] Microsoft Corporation, "[Store Schema Definition Language File Format](#)".

[MS-SSP] Microsoft Corporation, "[Single Sign-On Protocol](#)".

[MS-SSRTP] Microsoft Corporation, "[Scale Secure Real-time Transport Protocol \(SSRTP\) Extensions](#)".

[MS-SSWPS] Microsoft Corporation, "[Secure Store Web Service Protocol](#)".

[MS-STSSYN] Microsoft Corporation, "[StsSync Data Structure](#)".

[MS-SVG] Microsoft Corporation, "[Internet Explorer Scalable Vector Graphics \(SVG\) Standards Support Document](#)".

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

[MS-TDS] Microsoft Corporation, "[Tabular Data Stream Protocol](#)".

[MS-TMPLDISC] Microsoft Corporation, "[Template Discovery Web Service Protocol](#)".

[MS-TNAP] Microsoft Corporation, "[Telnet: NT LAN Manager \(NTLM\) Authentication Protocol](#)".

[MS-TSCH] Microsoft Corporation, "[Task Scheduler Service Remoting Protocol](#)".

[MS-TSCSOM] Microsoft Corporation, "[Translation Services Client-Side Object Model Protocol](#)".

[MS-TSWS] Microsoft Corporation, "[Translation Services Web Service Protocol](#)".

[MS-TTML] Microsoft Corporation, "[Internet Explorer Timed Text Markup Language \(TTML\) 1.0 Standards Support Documentation](#)".

[MS-TURN] Microsoft Corporation, "[Traversal Using Relay NAT \(TURN\) Extensions](#)".

[MS-TURNBWM] Microsoft Corporation, "[Traversal using Relay NAT \(TURN\) Bandwidth Management Extensions](#)".

[MS-UCODEREF] Microsoft Corporation, "[Windows Protocols Unicode Reference](#)".

[MS-UDCX] Microsoft Corporation, "[Universal Data Connection 2.0 XML File Format](#)".

[MS-UGS] Microsoft Corporation, "[UserGroup Web Service Protocol](#)".

[MS-UPFCWS] Microsoft Corporation, "[User Activity Feed Cache Web Service Protocol](#)".

[MS-UIEWS] Microsoft Corporation, "[User Profile Import and Export Web Service Protocol](#)".

[MS-UPSCDS] Microsoft Corporation, "[User Profile Synchronization \(UPS\): Configuration Data Structure](#)".

[MS-UPSCP] Microsoft Corporation, "[User Profile Synchronization \(UPS\): Configuration Protocol Extensions](#)".

[MS-UPSCWS] Microsoft Corporation, "[User Profile Service Application Caching Web Service Protocol](#)".

[MS-UPSDWS] Microsoft Corporation, "[User Profile Social Data Web Service Protocol](#)".

[MS-UPSLDAP] Microsoft Corporation, "[User Profile Synchronization \(UPS\): Lightweight Directory Access Protocol Version 3 Extensions](#)".

[MS-UPSMODS] Microsoft Corporation, "[User Profile Synchronization \(UPS\): Management Objects Data Structure](#)".

[MS-UPSSCXPP] Microsoft Corporation, "[User Profile Synchronization \(UPS\): Schema Exchange Protocol Profile](#)".

[MS-UPWCFWS] Microsoft Corporation, "[User Profile Property Service Application Web Service Protocol](#)".

[MS-USERTIM] Microsoft Corporation, "[Internet Explorer User Timing Standards Support Document](#)".

[MS-USPSWS] Microsoft Corporation, "[User Profile Service Web Service Protocol](#)".

[MS-USRPCH] Microsoft Corporation, "[User Profile Change Log Web Service Protocol](#)".

[MS-VBAL] Microsoft Corporation, "[VBA Language Specification](#)".

[MS-VERSS] Microsoft Corporation, "[Versions Web Service Protocol](#)".

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

[MS-VGSP] Microsoft Corporation, "[Visio Graphics Service Protocol](#)".

[MS-VIEWSS] Microsoft Corporation, "[Views Web Service Protocol](#)".

[MS-VSDX] Microsoft Corporation, "[Visio Graphics Service VSDX File Format](#)".

[MS-WCCE] Microsoft Corporation, "[Windows Client Certificate Enrollment Protocol](#)".

[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-WDVMODUU] Microsoft Corporation, "[Office Document Update Utility Extensions Protocol Specification](#)".

[MS-WDVSE] Microsoft Corporation, "[Web Distributed Authoring and Versioning \(WebDAV\) Protocol: Server Extensions](#)".

[MS-WEBDAVE] Microsoft Corporation, "[Web Distributed Authoring and Versioning Error Extensions Protocol](#)".

[MS-WEBSS] Microsoft Corporation, "[Webs Web Service Protocol](#)".

[MS-WEBSTG] Microsoft Corporation, "[Internet Explorer Web Storage Standards Support Document](#)".

[MS-WMCSOM] Microsoft Corporation, "[Work Management Client-Side Object Model Protocol](#)".

[MS-WMF] Microsoft Corporation, "[Windows Metafile Format](#)".

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

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

[MS-WMS] Microsoft Corporation, "[Work Management Service Web Service Protocol](#)".

[MS-WOFF1] Microsoft Corporation, "[Internet Explorer WOFF File Format 1.0 Standards Support Document](#)".

[MS-WOPI] Microsoft Corporation, "[Web Application Open Platform Interface Protocol](#)".

[MS-WORDSWCF] Microsoft Corporation, "[Word Automation Services WCF Service Protocol](#)".

[MS-WPFXV] Microsoft Corporation, "[WPF XAML Vocabulary Specification 2006](#)".

[MS-WPPS] Microsoft Corporation, "[Web Part Pages Web Service Protocol](#)".

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

[MS-WSSCAML] Microsoft Corporation, "[Collaborative Application Markup Language \(CAML\) Structure](#)".

[MS-WSSCAP] Microsoft Corporation, "[Windows SharePoint Services Collaborative Application Protocol](#)".

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

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

[MS-WSSFO3] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Version 3 Protocol](#)".

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

[MS-WSSHP] Microsoft Corporation, "[HTTP Windows SharePoint Services Headers Protocol](#)".

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

[MS-WSSREST] Microsoft Corporation, "[ListData Data Service Protocol](#)".

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

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

[MS-WWSP] Microsoft Corporation, "[Workflow Web Service Protocol](#)".

[MS-XAML] Microsoft Corporation, "[XAML Object Mapping Specification 2006](#)".

[MS-XCCOSIP] Microsoft Corporation, "[Extensible Chat Control Over Session Initiation Protocol \(SIP\)](#)".

[MS-XHTML] Microsoft Corporation, "[Internet Explorer Extensible HyperText Markup Language \(XHTML\) Standards Support Document](#)".

[MS-XLDM] Microsoft Corporation, "[Spreadsheet Data Model File Format](#)".

[MS-XLS] Microsoft Corporation, "[Excel Binary File Format \(.xls\) Structure](#)".

[MS-XLSB] Microsoft Corporation, "[Excel Binary File Format \(.xlsb\) Structure Specification](#)".

[MS-XLSX] Microsoft Corporation, "[Excel Extensions to the Office Open XML SpreadsheetML File Format \(.xlsx\) Specification](#)".

[MS-XML] Microsoft Corporation, "[Microsoft Extensible Markup Language \(XML\) Fourth Edition Standards Support Document](#)".

[MS-XMLH] Microsoft Corporation, "[Internet Explorer XML 1.0 \(Fourth Edition\) Standards Support Document](#)".

[MS-XMLMC] Microsoft Corporation, "[XML Schema for Media Control Extensions](#)".

[MS-XMLNS] Microsoft Corporation, "[Microsoft XML Namespaces Standards Support Document](#)".

[MS-XMLNSH] Microsoft Corporation, "[Internet Explorer XML Namespaces 1.0 Standards Support Document](#)".

[MS-XMLSD] Microsoft Corporation, "[Microsoft XML Schema \(Part 2: Datatypes\) Standards Support Document](#)".

[MS-XMLSS] Microsoft Corporation, "[Microsoft XML Schema \(Part 1: Structures\) Standards Support Document](#)".

[MS-XMLSTYL] Microsoft Corporation, "[Microsoft XML Style Sheets Standards Support Document](#)".

[MS-XOAUTH] Microsoft Corporation, "[OAuth 2.0 Authorization Protocol Extensions](#)".

[MS-XPATH] Microsoft Corporation, "[Microsoft XML XPath Standards Support Document](#)".

[MS-XSLT] Microsoft Corporation, "[Microsoft XSL Transformations \(XSLT\) Standards Support Document](#)".

[MS-XSSK] Microsoft Corporation, "[XML Serialization of Synchronization Knowledge Specification](#)".



## 4 Change Tracking

This section identifies changes that were made to the [MS-OFREF] protocol document between the July 2014 and October 2014 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.
- The removal of a document from the documentation set.

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 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 changes were introduced. Minor editorial and formatting changes may have been made, but the technical content of the document is identical to the last released version.

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.

- 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 [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">2 External References</a>	Added the reference [CSS-FontsLevel3].	Y	New content added.
<a href="#">2 External References</a>	Added the reference [HTML5].	Y	New content added.
<a href="#">2 External References</a>	Added the reference [WAI-ARIA1.0].	Y	New content added.
<a href="#">2 External References</a>	Added the reference [WSDLSOAP].	Y	New content added.
<a href="#">2 External References</a>	Added the reference [XDomainRequest].	Y	New content added.
<a href="#">2 External References</a>	Added the reference [XMLHTTPPR-LEVEL1].	Y	New content added.
<a href="#">2 External References</a>	Updated the reference [PKCS7].	Y	Content updated.
<a href="#">2 External References</a>	Updated the reference [PKCS9].	Y	Content updated.
<a href="#">3 Internal References</a>	Added the reference [MS-ARIA].	Y	New content added.
<a href="#">3 Internal References</a>	Added the reference [MS-ASP].	Y	New content added.
<a href="#">3 Internal References</a>	Added the reference [MS-BCP].	Y	New content added.
<a href="#">3 Internal References</a>	Added the reference [MS-CORS].	Y	New content added.
<a href="#">3 Internal References</a>	Added the reference [MS-CORSXF].	Y	New content added.
<a href="#">3 Internal References</a>	Added the reference [MS-MQRR].	Y	New content added.

<b>Section</b>	<b>Tracking number (if applicable) and description</b>	<b>Major change (Y or N)</b>	<b>Change type</b>
<a href="#">3 Internal References</a>	Updated the reference [MS-CSS3NS].	Y	Content updated.
<a href="#">3 Internal References</a>	Updated the reference [MS-CSS3SEL].	Y	Content updated.
<a href="#">3 Internal References</a>	Updated the reference [MS-ELTRAV].	Y	Content updated.
<a href="#">3 Internal References</a>	Updated the reference [MS-ES3].	Y	Content updated.