

[MS-EMMWC]:

Metadata Shared Service WCF Service Protocol

Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation (“this documentation”) for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
- **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 can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft [Open Specifications Promise](#) or the [Microsoft Community Promise](#). If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
- **License Programs.** To see all of the protocols in scope under a specific license program and the associated patents, visit the [Patent Map](#).
- **Trademarks.** The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit www.microsoft.com/trademarks.
- **Fictitious Names.** The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are 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 as specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications documentation does 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 documents are intended for use in conjunction with publicly available standards specifications and network programming art and, as such, assume that the reader either is familiar with the aforementioned material or has immediate access to it.

Support. For questions and support, please contact dochelp@microsoft.com.

Preliminary Documentation. This particular Open Specifications document provides documentation for past and current releases and/or for the pre-release version of this technology. This document provides final documentation for past and current releases and preliminary documentation, as applicable and specifically noted in this document, for the pre-release version. Microsoft will release final documentation in connection with the commercial release of the updated or new version of this technology. Because this documentation might change between the pre-release version and the final

version of this technology, there are risks in relying on this preliminary documentation. To the extent that you incur additional development obligations or any other costs as a result of relying on this preliminary documentation, you do so at your own risk.

Preliminary

Revision Summary

Date	Revision History	Revision Class	Comments
7/13/2009	0.1	Major	Initial Availability
8/28/2009	0.2	Editorial	Revised and edited the technical content
11/6/2009	0.3	Editorial	Revised and edited the technical content
2/19/2010	1.0	Major	Updated and revised the technical content
3/31/2010	1.01	Editorial	Revised and edited the technical content
4/30/2010	1.02	Minor	Updated the technical content
6/7/2010	1.03	Editorial	Revised and edited the technical content
6/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
7/23/2010	1.05	Minor	Clarified the meaning of the technical content.
9/27/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
3/18/2011	1.05	None	No changes to the meaning, language, or formatting of the technical content.
6/10/2011	1.05	None	No changes to the meaning, language, or formatting of the technical content.
1/20/2012	2.0	Major	Significantly changed the technical content.
4/11/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
9/12/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
10/8/2012	3.0	Major	Significantly changed the technical content.
2/11/2013	3.0	None	No changes to the meaning, language, or formatting of the technical content.
7/30/2013	3.0	None	No changes to the meaning, language, or formatting of the technical content.
11/18/2013	3.0	None	No changes to the meaning, language, or formatting of the technical content.
2/10/2014	3.0	None	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	3.1	Minor	Clarified the meaning of the technical content.

Date	Revision History	Revision Class	Comments
7/31/2014	3.1	None	No changes to the meaning, language, or formatting of the technical content.
10/30/2014	3.1	None	No changes to the meaning, language, or formatting of the technical content.
2/26/2016	4.0	Major	Significantly changed the technical content.
7/15/2016	4.0	None	No changes to the meaning, language, or formatting of the technical content.
9/14/2016	4.0	None	No changes to the meaning, language, or formatting of the technical content.
9/19/2017	4.0	None	No changes to the meaning, language, or formatting of the technical content.
7/24/2018	5.0	Major	Significantly changed the technical content.
10/1/2018	6.0	Major	Significantly changed the technical content.
6/18/2019	6.0	None	No changes to the meaning, language, or formatting of the technical content.
7/20/2021	7.0	Major	Significantly changed the technical content.

Preliminary

Table of Contents

1	Introduction	20
1.1	Glossary	20
1.2	References	23
1.2.1	Normative References	23
1.2.2	Informative References	24
1.3	Protocol Overview (Synopsis)	24
1.4	Relationship to Other Protocols	24
1.5	Prerequisites/Preconditions	25
1.6	Applicability Statement	25
1.7	Versioning and Capability Negotiation	25
1.8	Vendor-Extensible Fields	25
1.9	Standards Assignments.....	25
2	Messages.....	26
2.1	Transport	26
2.2	Common Message Syntax	26
2.2.1	Namespaces	26
2.2.2	Messages.....	27
2.2.3	Elements	27
2.2.4	Complex Types.....	27
2.2.4.1	ArrayOfguid.....	31
2.2.4.2	ArrayOfint	31
2.2.4.3	ChangeDataForAddTermSet	31
2.2.4.4	ChangeDataForAddTermSetMembership.....	31
2.2.4.5	ChangeDataForAddUsedTerm	32
2.2.4.6	ChangeDataForDeleteTerm.....	32
2.2.4.7	ChangeDataForMergeTerm	33
2.2.4.8	ChangeDataForMoveOrUpdateTermSetMembership	33
2.2.4.9	ChangeDataForRestoreTermStore	34
2.2.4.10	ChangeDataForSetDefaultLanguage.....	34
2.2.4.11	ChangeDataForUpdateTermSet	35
2.2.4.12	GetApplicationLogRoot.....	35
2.2.4.13	GetChangesRoot	36
2.2.4.14	GetGroupsAndTermSetsRoot	36
2.2.4.15	GetGroupsRoot	37
2.2.4.16	GetServiceSettingsRoot	38
2.2.4.17	GetTermRoot.....	38
2.2.4.18	GetUpdateInformationRoot.....	39
2.2.4.19	SearchedTermsRoot	40
2.2.4.20	SearchedTermsRootOptimized	40
2.2.4.21	SearchedTermsRootStandard	41
2.2.4.22	SerializedECMChangeLogTableRow	42
2.2.4.23	SerializedECMChildTermTableRow	44
2.2.4.24	SerializedECMGroupTableRow	44
2.2.4.25	SerializedECMGroupTermSetIdsTableRow.....	46
2.2.4.26	SerializedECMLanguageTableRow	46
2.2.4.27	SerializedECMPermissionTableRow	46
2.2.4.28	SerializedECMRootTermTableRow	47
2.2.4.29	SerializedECMServiceSettingsTableRow	47
2.2.4.30	SerializedECMTermDescriptionTableRowBase.....	47
2.2.4.31	SerializedECMTermDescriptionTableRowForRead	48
2.2.4.32	SerializedECMTermLabelTableRowBase	48
2.2.4.33	SerializedECMTermLabelTableRowForRead	49
2.2.4.34	SerializedECMTermPropertyTableRowBase.....	49
2.2.4.35	SerializedECMTermPropertyTableRowForRead	49

2.2.4.36	SerializedECMTermSetMembershipTableRowBase.....	50
2.2.4.37	SerializedECMTermSetMembershipTableRowForRead.....	50
2.2.4.38	SerializedECMTermSetTableRow.....	51
2.2.4.39	SerializedECMTermTableRowForRead.....	53
2.2.4.40	ServiceSettings.....	54
2.2.4.41	ServiceSettingsSettingsXmlDoc.....	54
2.2.4.42	WorkflowData.....	54
2.2.4.43	ChangeDataForUpdateTerm.....	57
2.2.4.44	SerializedECMChangeLogTableTimeOnlyRow.....	58
2.2.4.45	GetSessionDataRoot.....	58
2.2.4.46	KeywordTermSetIdIndicator.....	59
2.2.4.47	NewPartitionIndicator.....	59
2.2.4.48	OrphanedTermSetIdIndicator.....	59
2.2.4.49	SerializedECMGroupIdsTableRow.....	60
2.2.4.50	SystemGroupIdIndicator.....	60
2.2.5	Simple Types.....	60
2.2.5.1	ChangeDataForAddOrDeleteLanguage.....	61
2.2.5.2	CommandAction.....	61
2.2.5.3	CommandActionBasic.....	61
2.2.5.4	ContentTypeId.....	62
2.2.5.5	GroupType.....	62
2.2.5.6	guid.....	63
2.2.5.7	InternalIdentifier.....	63
2.2.5.8	LCID.....	63
2.2.5.9	Rights.....	63
2.2.5.10	StreamBody.....	64
2.2.5.11	StringMatchOption.....	64
2.2.5.12	TermSetType.....	64
2.2.5.13	UserName.....	65
2.2.5.14	ChangedItemType.....	65
2.2.5.15	ChangedOperationType.....	66
2.2.6	Attributes.....	67
2.2.7	Groups.....	67
2.2.8	Attribute Groups.....	67
3	Protocol Details.....	68
3.1	Server Details.....	68
3.1.1	Abstract Data Model.....	68
3.1.2	Timers.....	69
3.1.3	Initialization.....	69
3.1.4	Message Processing Events and Sequencing Rules.....	69
3.1.4.1	ClearApplicationLog.....	72
3.1.4.1.1	Messages.....	72
3.1.4.1.1.1	IMetadataWebServiceApplication_ClearApplicationLog_InputMessage.....	72
3.1.4.1.1.2	IMetadataWebServiceApplication_ClearApplicationLog_OutputMessage.....	72
3.1.4.1.2	Elements.....	72
3.1.4.1.2.1	ClearApplicationLog.....	72
3.1.4.1.2.2	ClearApplicationLogResponse.....	73
3.1.4.1.3	Complex Types.....	73
3.1.4.1.4	Simple Types.....	73
3.1.4.1.5	Attributes.....	73
3.1.4.1.6	Groups.....	73
3.1.4.1.7	Attribute Groups.....	73
3.1.4.2	ClearPartitionData.....	73
3.1.4.2.1	Messages.....	73
3.1.4.2.1.1	IMetadataWebServiceApplication_ClearPartitionData_InputMessage.....	74
3.1.4.2.1.2	IMetadataWebServiceApplication_ClearPartitionData_OutputMessage.....	74

3.1.4.2.2	Elements	74
3.1.4.2.2.1	ClearPartitionData	74
3.1.4.2.2.2	ClearPartitionDataResponse	74
3.1.4.2.3	Complex Types	74
3.1.4.2.4	Simple Types	74
3.1.4.2.5	Attributes	75
3.1.4.2.6	Groups	75
3.1.4.2.7	Attribute Groups	75
3.1.4.3	DeleteServiceSettings	75
3.1.4.3.1	Messages	75
3.1.4.3.1.1	IMetadataWebServiceApplication_DeleteServiceSettings_InputMessage	75
3.1.4.3.1.2	IMetadataWebServiceApplication_DeleteServiceSettings_OutputMessage	75
3.1.4.3.2	Elements	75
3.1.4.3.2.1	DeleteServiceSettings	75
3.1.4.3.2.2	DeleteServiceSettingsResponse	76
3.1.4.3.3	Complex Types	76
3.1.4.3.4	Simple Types	76
3.1.4.3.5	Attributes	76
3.1.4.3.6	Groups	76
3.1.4.3.7	Attribute Groups	76
3.1.4.4	DownloadPackage	76
3.1.4.4.1	Messages	77
3.1.4.4.1.1	IMetadataWebServiceApplication_DownloadPackage_InputMessage	77
3.1.4.4.1.2	IMetadataWebServiceApplication_DownloadPackage_OutputMessage	77
3.1.4.4.2	Elements	77
3.1.4.4.2.1	DownloadPackage	77
3.1.4.4.2.2	DownloadPackageResponse	77
3.1.4.4.3	Complex Types	78
3.1.4.4.4	Simple Types	78
3.1.4.4.5	Attributes	78
3.1.4.4.6	Groups	78
3.1.4.4.7	Attribute Groups	78
3.1.4.5	ExportPartitionData	78
3.1.4.5.1	Messages	78
3.1.4.5.1.1	IMetadataWebServiceApplication_ExportPartitionData_InputMessage	78
3.1.4.5.1.2	IMetadataWebServiceApplication_ExportPartitionData_OutputMessage	79
3.1.4.5.2	Elements	79
3.1.4.5.2.1	ExportPartitionData	79
3.1.4.5.2.2	ExportPartitionDataResponse	79
3.1.4.5.3	Complex Types	79
3.1.4.5.4	Simple Types	79
3.1.4.5.5	Attributes	79
3.1.4.5.6	Groups	80
3.1.4.5.7	Attribute Groups	80
3.1.4.6	GetApplicationLog	80
3.1.4.6.1	Messages	80
3.1.4.6.1.1	IMetadataWebServiceApplication_GetApplicationLog_InputMessage	80
3.1.4.6.1.2	IMetadataWebServiceApplication_GetApplicationLog_OutputMessage	80
3.1.4.6.2	Elements	80
3.1.4.6.2.1	GetApplicationLog	80
3.1.4.6.2.2	GetApplicationLogResponse	81
3.1.4.6.3	Complex Types	81
3.1.4.6.4	Simple Types	81
3.1.4.6.5	Attributes	81

3.1.4.6.6	Groups.....	81
3.1.4.6.7	Attribute Groups.....	81
3.1.4.7	GetChanges	81
3.1.4.7.1	Messages	82
3.1.4.7.1.1	IMetadataWebServiceApplication_GetChanges_InputMessage.....	82
3.1.4.7.1.2	IMetadataWebServiceApplication_GetChanges_OutputMessage	82
3.1.4.7.2	Elements	82
3.1.4.7.2.1	GetChanges	82
3.1.4.7.2.2	GetChangesResponse	83
3.1.4.7.3	Complex Types	83
3.1.4.7.4	Simple Types	83
3.1.4.7.5	Attributes	83
3.1.4.7.6	Groups.....	83
3.1.4.7.7	Attribute Groups.....	83
3.1.4.8	GetChangesForFullListSync	83
3.1.4.8.1	Messages	84
3.1.4.8.1.1	IMetadataWebServiceApplication_GetChangesForFullListSync_InputMessage.....	84
3.1.4.8.1.2	IMetadataWebServiceApplication_GetChangesForFullListSync_OutputMessage	84
3.1.4.8.2	Elements	84
3.1.4.8.2.1	GetChangesForFullListSync	84
3.1.4.8.2.2	GetChangesForFullListSyncResponse	84
3.1.4.8.3	Complex Types	85
3.1.4.8.3.1	GetChangesForFullListSyncRoot	85
3.1.4.8.4	Simple Types	86
3.1.4.8.5	Attributes	86
3.1.4.8.6	Groups.....	86
3.1.4.8.7	Attribute Groups.....	86
3.1.4.9	GetChangesForListSync	86
3.1.4.9.1	Messages	86
3.1.4.9.1.1	IMetadataWebServiceApplication_GetChangesForListSync_InputMessage	86
3.1.4.9.1.2	IMetadataWebServiceApplication_GetChangesForListSync_OutputMessage.....	87
3.1.4.9.2	Elements	87
3.1.4.9.2.1	GetChangesForListSync	87
3.1.4.9.2.2	GetChangesForListSyncResponse	87
3.1.4.9.3	Complex Types	87
3.1.4.9.3.1	GetChangesForListSyncRoot	88
3.1.4.9.4	Simple Types	89
3.1.4.9.5	Attributes	89
3.1.4.9.6	Groups.....	89
3.1.4.9.7	Attribute Groups.....	89
3.1.4.10	GetChangesOverInterval	89
3.1.4.10.1	Messages	89
3.1.4.10.1.1	IMetadataWebServiceApplication_GetChangesOverInterval_InputMessage.....	90
3.1.4.10.1.2	IMetadataWebServiceApplication_GetChangesOverInterval_OutputMessage	90
3.1.4.10.2	Elements	90
3.1.4.10.2.1	GetChangesOverInterval.....	90

3.1.4.10.2.2	GetChangesOverIntervalResponse	90
3.1.4.10.3	Complex Types	91
3.1.4.10.4	Simple Types	91
3.1.4.10.4.1	duration.....	91
3.1.4.10.5	Attributes	91
3.1.4.10.6	Groups.....	91
3.1.4.10.7	Attribute Groups.....	91
3.1.4.11	GetChangeTime	91
3.1.4.11.1	Messages	91
3.1.4.11.1.1	IMetadataWebServiceApplication_GetChangeTime_InputMessage	92
3.1.4.11.1.2	IMetadataWebServiceApplication_GetChangeTime_OutputMessage ..	92
3.1.4.11.2	Elements.....	92
3.1.4.11.2.1	GetChangeTime	92
3.1.4.11.2.2	GetChangeTimeResponse.....	92
3.1.4.11.3	Complex Types	93
3.1.4.11.3.1	GetChangeTimeRoot.....	93
3.1.4.11.4	Simple Types	93
3.1.4.11.5	Attributes	93
3.1.4.11.6	Groups.....	93
3.1.4.11.7	Attribute Groups.....	93
3.1.4.12	GetDescendentTerms	93
3.1.4.12.1	Messages	94
3.1.4.12.1.1	IMetadataWebServiceApplication_GetDescendentTerms_InputMessage	94
3.1.4.12.1.2	IMetadataWebServiceApplication_GetDescendentTerms_OutputMessage	94
3.1.4.12.2	Elements.....	94
3.1.4.12.2.1	GetDescendentTerms	94
3.1.4.12.2.2	GetDescendentTermsResponse	94
3.1.4.12.3	Complex Types	95
3.1.4.12.4	Simple Types	95
3.1.4.12.5	Attributes	95
3.1.4.12.6	Groups.....	95
3.1.4.12.7	Attribute Groups.....	95
3.1.4.13	GetGroupByGuid	95
3.1.4.13.1	Messages	95
3.1.4.13.1.1	IMetadataWebServiceApplication_GetGroupByGuid_InputMessage ...	95
3.1.4.13.1.2	IMetadataWebServiceApplication_GetGroupByGuid_OutputMessage .	96
3.1.4.13.2	Elements.....	96
3.1.4.13.2.1	GetGroupByGuid	96
3.1.4.13.2.2	GetGroupByGuidResponse.....	96
3.1.4.13.3	Complex Types	96
3.1.4.13.4	Simple Types	96
3.1.4.13.5	Attributes	96
3.1.4.13.6	Groups.....	97
3.1.4.13.7	Attribute Groups.....	97
3.1.4.14	GetGroups	97
3.1.4.14.1	Messages	97
3.1.4.14.1.1	IMetadataWebServiceApplication_GetGroups_InputMessage.....	97
3.1.4.14.1.2	IMetadataWebServiceApplication_GetGroups_OutputMessage	97
3.1.4.14.2	Elements.....	97
3.1.4.14.2.1	GetGroups	97
3.1.4.14.2.2	GetGroupsResponse	98
3.1.4.14.3	Complex Types	98
3.1.4.14.4	Simple Types	98
3.1.4.14.5	Attributes	98
3.1.4.14.6	Groups.....	98
3.1.4.14.7	Attribute Groups.....	98

3.1.4.15	GetIsServiceApplicationPartitioned	98
3.1.4.15.1	Messages	99
3.1.4.15.1.1	IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_InputMessage	99
3.1.4.15.1.2	IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_OutputMessage	99
3.1.4.15.2	Elements	99
3.1.4.15.2.1	GetIsServiceApplicationPartitioned	99
3.1.4.15.2.2	GetIsServiceApplicationPartitionedResponse	99
3.1.4.15.3	Complex Types	100
3.1.4.15.4	Simple Types	100
3.1.4.15.5	Attributes	100
3.1.4.15.6	Groups	100
3.1.4.15.7	Attribute Groups	100
3.1.4.16	GetServiceApplicationName	100
3.1.4.16.1	Messages	100
3.1.4.16.1.1	IMetadataWebServiceApplication_GetServiceApplicationName_InputMessage	100
3.1.4.16.1.2	IMetadataWebServiceApplication_GetServiceApplicationName_OutputMessage	101
3.1.4.16.2	Elements	101
3.1.4.16.2.1	GetServiceApplicationName	101
3.1.4.16.2.2	GetServiceApplicationNameResponse	101
3.1.4.16.3	Complex Types	101
3.1.4.16.4	Simple Types	101
3.1.4.16.5	Attributes	101
3.1.4.16.6	Groups	101
3.1.4.16.7	Attribute Groups	101
3.1.4.17	GetServiceApplicationSettings	102
3.1.4.17.1	Messages	102
3.1.4.17.1.1	IMetadataWebServiceApplication_GetServiceApplicationSettings_InputMessage	102
3.1.4.17.1.2	IMetadataWebServiceApplication_GetServiceApplicationSettings_OutputMessage	102
3.1.4.17.2	Elements	102
3.1.4.17.2.1	GetServiceApplicationSettings	102
3.1.4.17.2.2	GetServiceApplicationSettingsResponse	102
3.1.4.17.3	Complex Types	103
3.1.4.17.4	Simple Types	103
3.1.4.17.5	Attributes	103
3.1.4.17.6	Groups	103
3.1.4.17.7	Attribute Groups	103
3.1.4.18	GetServiceSettings	103
3.1.4.18.1	Messages	103
3.1.4.18.1.1	IMetadataWebServiceApplication_GetServiceSettings_InputMessage	103
3.1.4.18.1.2	IMetadataWebServiceApplication_GetServiceSettings_OutputMessage	104
3.1.4.18.2	Elements	104
3.1.4.18.2.1	GetServiceSettings	104
3.1.4.18.2.2	GetServiceSettingsResponse	104
3.1.4.18.3	Complex Types	104
3.1.4.18.4	Simple Types	104

3.1.4.18.5	Attributes	104
3.1.4.18.6	Groups.....	105
3.1.4.18.7	Attribute Groups.....	105
3.1.4.19	GetSessionData	105
3.1.4.19.1	Messages	105
3.1.4.19.1.1	IMetadataWebServiceApplication_GetSessionData_InputMessage ...	105
3.1.4.19.1.2	IMetadataWebServiceApplication_GetSessionData_OutputMessage ..	105
3.1.4.19.2	Elements	105
3.1.4.19.2.1	GetSessionData	105
3.1.4.19.2.2	GetSessionDataResponse.....	107
3.1.4.19.3	Complex Types	108
3.1.4.19.4	Simple Types	108
3.1.4.19.5	Attributes	108
3.1.4.19.6	Groups.....	108
3.1.4.19.7	Attribute Groups.....	108
3.1.4.20	GetSitesContainingTerms	108
3.1.4.20.1	Messages	108
3.1.4.20.1.1	IMetadataWebServiceApplication_GetSitesContainingTerms_InputMessa ge.....	108
3.1.4.20.1.2	IMetadataWebServiceApplication_GetSitesContainingTerms_OutputMess age	109
3.1.4.20.2	Elements	109
3.1.4.20.2.1	GetSitesContainingTerms.....	109
3.1.4.20.2.2	GetSitesContainingTermsResponse.....	109
3.1.4.20.3	Complex Types	109
3.1.4.20.3.1	ArrayOfKeyValueOfguidArrayOfguidox8ieOcg.....	109
3.1.4.20.4	Simple Types	110
3.1.4.20.5	Attributes	110
3.1.4.20.6	Groups.....	110
3.1.4.20.7	Attribute Groups.....	110
3.1.4.21	GetSortedChildTermIds.....	110
3.1.4.21.1	Messages	111
3.1.4.21.1.1	IMetadataWebServiceApplication_GetSortedChildTermIds_InputMessag e	111
3.1.4.21.1.2	IMetadataWebServiceApplication_GetSortedChildTermIds_OutputMessa ge.....	111
3.1.4.21.2	Elements.....	111
3.1.4.21.2.1	GetSortedChildTermIds	111
3.1.4.21.2.2	GetSortedChildTermIdsResponse	111
3.1.4.21.3	Complex Types	112
3.1.4.21.3.1	GetSortedChildTermIdsRoot	112
3.1.4.21.4	Simple Types	112
3.1.4.21.5	Attributes	112
3.1.4.21.6	Groups.....	112
3.1.4.21.7	Attribute Groups.....	112
3.1.4.22	GetTerm	113
3.1.4.22.1	Messages	113
3.1.4.22.1.1	IMetadataWebServiceApplication_GetTerm_InputMessage	113
3.1.4.22.1.2	IMetadataWebServiceApplication_GetTerm_OutputMessage	113
3.1.4.22.2	Elements.....	113
3.1.4.22.2.1	GetTerm	113
3.1.4.22.2.2	GetTermResponse.....	114
3.1.4.22.3	Complex Types	114
3.1.4.22.4	Simple Types	114

3.1.4.22.5	Attributes	114
3.1.4.22.6	Groups.....	114
3.1.4.22.7	Attribute Groups.....	114
3.1.4.23	GetTerms.....	114
3.1.4.23.1	Messages	114
3.1.4.23.1.1	IMetadataWebServiceApplication_GetTerms_InputMessage	115
3.1.4.23.1.2	IMetadataWebServiceApplication_GetTerms_OutputMessage.....	115
3.1.4.23.2	Elements.....	115
3.1.4.23.2.1	GetTerms.....	115
3.1.4.23.2.2	GetTermsResponse	115
3.1.4.23.3	Complex Types	116
3.1.4.23.4	Simple Types	116
3.1.4.23.5	Attributes	116
3.1.4.23.6	Groups.....	116
3.1.4.23.7	Attribute Groups.....	116
3.1.4.24	GetTermSets	116
3.1.4.24.1	Messages	116
3.1.4.24.1.1	IMetadataWebServiceApplication_GetTermSets_InputMessage	116
3.1.4.24.1.2	IMetadataWebServiceApplication_GetTermSets_OutputMessage	116
3.1.4.24.2	Elements.....	117
3.1.4.24.2.1	GetTermSets.....	117
3.1.4.24.2.2	GetTermSetsResponse.....	117
3.1.4.24.3	Complex Types	117
3.1.4.24.4	Simple Types	117
3.1.4.24.5	Attributes	117
3.1.4.24.6	Groups.....	117
3.1.4.24.7	Attribute Groups.....	117
3.1.4.25	GetTermSetsByLabel	118
3.1.4.25.1	Messages	118
3.1.4.25.1.1	IMetadataWebServiceApplication_GetTermSetsByLabel_InputMessage	118
3.1.4.25.1.2	IMetadataWebServiceApplication_GetTermSetsByLabel_OutputMessage	118
3.1.4.25.2	Elements.....	118
3.1.4.25.2.1	GetTermSetsByLabel	118
3.1.4.25.2.2	GetTermSetsByLabelResponse.....	119
3.1.4.25.3	Complex Types	119
3.1.4.25.3.1	ArrayOfstring	119
3.1.4.25.4	Simple Types	119
3.1.4.25.5	Attributes	120
3.1.4.25.6	Groups.....	120
3.1.4.25.7	Attribute Groups.....	120
3.1.4.26	GetTermSetsInternal	120
3.1.4.26.1	Messages	120
3.1.4.26.1.1	IMetadataWebServiceApplication_GetTermSetsInternal_InputMessage	120
3.1.4.26.1.2	IMetadataWebServiceApplication_GetTermSetsInternal_OutputMessage	120
3.1.4.26.2	Elements.....	120
3.1.4.26.2.1	GetTermSetsInternal.....	120
3.1.4.26.2.2	GetTermSetsInternalResponse.....	121
3.1.4.26.3	Complex Types	121
3.1.4.26.3.1	GetTermSetRoot.....	121
3.1.4.26.4	Simple Types	122
3.1.4.26.5	Attributes	122
3.1.4.26.6	Groups.....	122
3.1.4.26.7	Attribute Groups.....	122
3.1.4.27	GetTermSetWithAllTerms	122

3.1.4.27.1	Messages	123
3.1.4.27.1.1	IMetadataWebServiceApplication_GetTermSetWithAllTerms_InputMessage.....	123
3.1.4.27.1.2	IMetadataWebServiceApplication_GetTermSetWithAllTerms_OutputMessage	123
3.1.4.27.2	Elements	123
3.1.4.27.2.1	GetTermSetWithAllTerms	123
3.1.4.27.2.2	GetTermSetWithAllTermsResponse.....	123
3.1.4.27.3	Complex Types	124
3.1.4.27.4	Simple Types	124
3.1.4.27.5	Attributes	124
3.1.4.27.6	Groups.....	124
3.1.4.27.7	Attribute Groups.....	124
3.1.4.28	GetTermsInternal.....	124
3.1.4.28.1	Messages	124
3.1.4.28.1.1	IMetadataWebServiceApplication_GetTermsInternal_InputMessage.....	124
3.1.4.28.1.2	IMetadataWebServiceApplication_GetTermsInternal_OutputMessage.....	125
3.1.4.28.2	Elements.....	125
3.1.4.28.2.1	GetTermsInternal.....	125
3.1.4.28.2.2	GetTermsInternalResponse	125
3.1.4.28.3	Complex Types	125
3.1.4.28.4	Simple Types	125
3.1.4.28.5	Attributes	126
3.1.4.28.6	Groups.....	126
3.1.4.28.7	Attribute Groups.....	126
3.1.4.29	GetUpdateInformation	126
3.1.4.29.1	Messages	126
3.1.4.29.1.1	IMetadataWebServiceApplication_GetUpdateInformation_InputMessage	126
3.1.4.29.1.2	IMetadataWebServiceApplication_GetUpdateInformation_OutputMessage	126
3.1.4.29.2	Elements.....	126
3.1.4.29.2.1	GetUpdateInformation	126
3.1.4.29.2.2	GetUpdateInformationResponse.....	127
3.1.4.29.3	Complex Types	127
3.1.4.29.4	Simple Types	127
3.1.4.29.5	Attributes	127
3.1.4.29.6	Groups.....	127
3.1.4.29.7	Attribute Groups.....	127
3.1.4.30	ImportPartitionData	127
3.1.4.30.1	Messages	128
3.1.4.30.1.1	IMetadataWebServiceApplication_ImportPartitionData_InputMessage	128
3.1.4.30.1.2	IMetadataWebServiceApplication_ImportPartitionData_OutputMessage	128
3.1.4.30.2	Elements.....	128
3.1.4.30.2.1	ImportPartitionData	128
3.1.4.30.2.2	ImportPartitionDataResponse	129
3.1.4.30.3	Complex Types	129
3.1.4.30.4	Simple Types	129
3.1.4.30.5	Attributes	129
3.1.4.30.6	Groups.....	129
3.1.4.30.7	Attribute Groups.....	129
3.1.4.31	InitiateCacheFlush.....	129
3.1.4.31.1	Messages	129

3.1.4.31.1.1	IMetadataWebServiceApplication_InitiateCacheFlush_InputMessage	130
3.1.4.31.1.2	IMetadataWebServiceApplication_InitiateCacheFlush_OutputMessage	130
3.1.4.31.2	Elements	130
3.1.4.31.2.1	InitiateCacheFlush	130
3.1.4.31.2.2	InitiateCacheFlushResponse	130
3.1.4.31.3	Complex Types	130
3.1.4.31.4	Simple Types	130
3.1.4.31.5	Attributes	130
3.1.4.31.6	Groups	130
3.1.4.31.7	Attribute Groups	131
3.1.4.32	PublishPackage	131
3.1.4.32.1	Messages	131
3.1.4.32.1.1	IMetadataWebServiceApplication_PublishPackage_InputMessage	131
3.1.4.32.1.2	IMetadataWebServiceApplication_PublishPackage_OutputMessage	131
3.1.4.32.2	Elements	131
3.1.4.32.2.1	PublishPackage	131
3.1.4.32.2.2	PublishPackageResponse	132
3.1.4.32.3	Complex Types	132
3.1.4.32.4	Simple Types	132
3.1.4.32.5	Attributes	132
3.1.4.32.6	Groups	132
3.1.4.32.7	Attribute Groups	132
3.1.4.33	RemoveUsedTermSet	132
3.1.4.33.1	Messages	133
3.1.4.33.1.1	IMetadataWebServiceApplication_RemoveUsedTermSet_InputMessage	133
3.1.4.33.1.2	IMetadataWebServiceApplication_RemoveUsedTermSet_OutputMessage	133
3.1.4.33.2	Elements	133
3.1.4.33.2.1	RemoveUsedTermSet	133
3.1.4.33.2.2	RemoveUsedTermSetResponse	133
3.1.4.33.3	Complex Types	134
3.1.4.33.4	Simple Types	134
3.1.4.33.5	Attributes	134
3.1.4.33.6	Groups	134
3.1.4.33.7	Attribute Groups	134
3.1.4.34	SearchTermByLabel	134
3.1.4.34.1	Messages	135
3.1.4.34.1.1	IMetadataWebServiceApplication_SearchTermByLabel_InputMessage	135
3.1.4.34.1.2	IMetadataWebServiceApplication_SearchTermByLabel_OutputMessage	135
3.1.4.34.2	Elements	135
3.1.4.34.2.1	SearchTermByLabel	135
3.1.4.34.2.2	SearchTermByLabelResponse	136
3.1.4.34.3	Complex Types	137
3.1.4.34.4	Simple Types	137
3.1.4.34.5	Attributes	137
3.1.4.34.6	Groups	137
3.1.4.34.7	Attribute Groups	137
3.1.4.35	SearchTermByProperty	137
3.1.4.35.1	Messages	138
3.1.4.35.1.1	IMetadataWebServiceApplication_SearchTermByProperty_InputMessage	138
3.1.4.35.1.2	IMetadataWebServiceApplication_SearchTermByProperty_OutputMessage	138

3.1.4.35.2	Elements	138
3.1.4.35.2.1	SearchTermByProperty	138
3.1.4.35.2.2	SearchTermByPropertyResponse	139
3.1.4.35.3	Complex Types	139
3.1.4.35.4	Simple Types	139
3.1.4.35.5	Attributes	139
3.1.4.35.6	Groups	140
3.1.4.35.7	Attribute Groups	140
3.1.4.36	SearchTermSetByName	140
3.1.4.36.1	Messages	140
3.1.4.36.1.1	IMetadataWebServiceApplication_SearchTermSetByName_InputMessage	140
3.1.4.36.1.2	IMetadataWebServiceApplication_SearchTermSetByName_OutputMessage	140
3.1.4.36.2	Elements	140
3.1.4.36.2.1	SearchTermSetByName	140
3.1.4.36.2.2	SearchTermSetByNameResponse	141
3.1.4.36.3	Complex Types	141
3.1.4.36.4	Simple Types	141
3.1.4.36.5	Attributes	141
3.1.4.36.6	Groups	142
3.1.4.36.7	Attribute Groups	142
3.1.4.37	SetServiceSettings	142
3.1.4.37.1	Messages	142
3.1.4.37.1.1	IMetadataWebServiceApplication_SetServiceSettings_InputMessage	142
3.1.4.37.1.2	IMetadataWebServiceApplication_SetServiceSettings_OutputMessage	142
3.1.4.37.2	Elements	142
3.1.4.37.2.1	SetServiceSettings	142
3.1.4.37.2.2	SetServiceSettingsResponse	143
3.1.4.37.3	Complex Types	143
3.1.4.37.4	Simple Types	143
3.1.4.37.5	Attributes	143
3.1.4.37.6	Groups	143
3.1.4.37.7	Attribute Groups	143
3.1.4.38	UnpublishPackage	143
3.1.4.38.1	Messages	144
3.1.4.38.1.1	IMetadataWebServiceApplication_UnpublishPackage_InputMessage	144
3.1.4.38.1.2	IMetadataWebServiceApplication_UnpublishPackage_OutputMessage	144
3.1.4.38.2	Elements	144
3.1.4.38.2.1	UnpublishPackage	144
3.1.4.38.2.2	UnpublishPackageResponse	145
3.1.4.38.3	Complex Types	145
3.1.4.38.4	Simple Types	145
3.1.4.38.5	Attributes	145
3.1.4.38.6	Groups	145
3.1.4.38.7	Attribute Groups	145
3.1.4.39	UploadStatus	145
3.1.4.39.1	Messages	145
3.1.4.39.1.1	IMetadataWebServiceApplication_UploadStatus_InputMessage	145
3.1.4.39.1.2	IMetadataWebServiceApplication_UploadStatus_OutputMessage	146
3.1.4.39.2	Elements	146
3.1.4.39.2.1	UploadStatus	146
3.1.4.39.2.2	UploadStatusResponse	146
3.1.4.39.3	Complex Types	146
3.1.4.39.4	Simple Types	147

3.1.4.39.4.1	SyndicationStatus	147
3.1.4.39.5	Attributes	148
3.1.4.39.6	Groups	148
3.1.4.39.7	Attribute Groups.....	148
3.1.4.40	Write.....	148
3.1.4.40.1	Messages	148
3.1.4.40.1.1	IMetadataWebServiceApplication_Write_InputMessage	149
3.1.4.40.1.2	IMetadataWebServiceApplication_Write_OutputMessage	149
3.1.4.40.2	Elements.....	149
3.1.4.40.2.1	Write.....	149
3.1.4.40.2.2	WriteResponse	149
3.1.4.40.3	Complex Types	149
3.1.4.40.3.1	WriteRoot	149
3.1.4.40.3.2	WritePartitionIndicator	150
3.1.4.40.3.3	SerializedECMTermTableRowForWrite	150
3.1.4.40.3.4	SerializedECMTermLabelTableRowForWrite.....	153
3.1.4.40.3.5	SerializedECMTermDescriptionTableRowForWrite	153
3.1.4.40.3.6	SerializedECMTermPropertyTableRowForWrite	153
3.1.4.40.3.7	SerializedECMTermSetMembershipTableRowForWrite	154
3.1.4.40.4	Simple Types	154
3.1.4.40.5	Attributes	154
3.1.4.40.6	Groups	154
3.1.4.40.7	Attribute Groups.....	154
3.1.4.41	WriteClearUsedTerms	155
3.1.4.41.1	Messages	155
3.1.4.41.1.1	IMetadataWebServiceApplication_WriteClearUsedTerms_InputMessage	155
3.1.4.41.1.2	IMetadataWebServiceApplication_WriteClearUsedTerms_OutputMessage	155
3.1.4.41.2	Elements.....	155
3.1.4.41.2.1	WriteClearUsedTerms	155
3.1.4.41.2.2	WriteClearUsedTermsResponse.....	156
3.1.4.41.3	Complex Types	156
3.1.4.41.4	Simple Types	156
3.1.4.41.5	Attributes	156
3.1.4.41.6	Groups.....	156
3.1.4.41.7	Attribute Groups.....	156
3.1.4.42	WriteUsedTerm.....	156
3.1.4.42.1	Messages	157
3.1.4.42.1.1	IMetadataWebServiceApplication_WriteUsedTerm_InputMessage	157
3.1.4.42.1.2	IMetadataWebServiceApplication_WriteUsedTerm_OutputMessage	157
3.1.4.42.2	Elements.....	157
3.1.4.42.2.1	WriteUsedTerm.....	157
3.1.4.42.2.2	WriteUsedTermResponse	158
3.1.4.42.3	Complex Types	158
3.1.4.42.4	Simple Types	158
3.1.4.42.5	Attributes	158
3.1.4.42.6	Groups.....	158
3.1.4.42.7	Attribute Groups.....	158
3.1.4.43	WriteUsedTerms	158
3.1.4.43.1	Messages	158
3.1.4.43.1.1	IMetadataWebServiceApplication_WriteUsedTerms_InputMessage	158
3.1.4.43.1.2	IMetadataWebServiceApplication_WriteUsedTerms_OutputMessage	159
3.1.4.43.2	Elements.....	159
3.1.4.43.2.1	WriteUsedTerms	159
3.1.4.43.2.2	WriteUsedTermsResponse	159
3.1.4.43.3	Complex Types	160
3.1.4.43.4	Simple Types	160

3.1.4.43.5	Attributes	160
3.1.4.43.6	Groups.....	160
3.1.4.43.7	Attribute Groups.....	160
3.1.4.44	GetChangedTermSets.....	160
3.1.4.44.1	Messages	160
3.1.4.44.1.1	IMetadataWebServiceApplication_GetChangedTermSets_InputMessage	160
3.1.4.44.1.2	IMetadataWebServiceApplication_GetChangedTermSets_OutputMessage	161
3.1.4.44.2	Elements.....	161
3.1.4.44.2.1	GetChangedTermSets.....	161
3.1.4.44.2.2	GetChangedTermSetsResponse	161
3.1.4.44.3	Complex Types	161
3.1.4.44.3.1	GetChangedTermSetsRoot	161
3.1.4.44.4	Simple Types	162
3.1.4.44.5	Attributes	162
3.1.4.44.6	Groups.....	162
3.1.4.44.7	Attribute Groups.....	162
3.1.4.45	SearchTermSetsByProperty	162
3.1.4.45.1	Messages	163
3.1.4.45.1.1	IMetadataWebServiceApplication_SearchTermSetsByProperty_InputMessage.....	163
3.1.4.45.1.2	IMetadataWebServiceApplication_SearchTermSetsByProperty_OutputMessage	163
3.1.4.45.2	Elements.....	163
3.1.4.45.2.1	SearchTermSetsByProperty.....	163
3.1.4.45.2.2	SearchTermSetsByPropertyResponse	164
3.1.4.45.3	Complex Types	164
3.1.4.45.4	Simple Types	164
3.1.4.45.5	Attributes	164
3.1.4.45.6	Groups.....	165
3.1.4.45.7	Attribute Groups.....	165
3.1.4.46	SearchAllTermSetsByProperty.....	165
3.1.4.46.1	Messages	165
3.1.4.46.1.1	IMetadataWebServiceApplication_SearchAllTermSetsByProperty_InputMessage	165
3.1.4.46.1.2	IMetadataWebServiceApplication_SearchAllTermSetsByProperty_OutputMessage	165
3.1.4.46.2	Elements.....	165
3.1.4.46.2.1	SearchAllTermSetsByProperty	166
3.1.4.46.2.2	SearchAllTermSetsByPropertyResponse	166
3.1.4.46.3	Complex Types	167
3.1.4.46.3.1	SearchAllTermSetsByPropertyRoot	167
3.1.4.46.4	Simple Types	167
3.1.4.46.5	Attributes	167
3.1.4.46.6	Groups.....	167
3.1.4.46.7	Attribute Groups.....	167
3.1.4.47	ExportPartitionData2	168
3.1.4.47.1	Messages	168
3.1.4.47.1.1	IMetadataWebServiceApplication_ExportPartitionData2_InputMessage	168
3.1.4.47.1.2	IMetadataWebServiceApplication_ExportPartitionData2_OutputMessage	168
3.1.4.47.2	Elements.....	168

3.1.4.47.2.1	ExportPartitionData2	168
3.1.4.47.2.2	ExportPartitionData2Response	169
3.1.4.47.3	Complex Types	169
3.1.4.47.4	Simple Types	169
3.1.4.47.5	Attributes	169
3.1.4.47.6	Groups	169
3.1.4.47.7	Attribute Groups	169
3.1.4.48	GetChanges2	169
3.1.4.48.1	Messages	170
3.1.4.48.1.1	IMetadataWebServiceApplication_GetChanges2_InputMessage	170
3.1.4.48.1.2	IMetadataWebServiceApplication_GetChanges2_OutputMessage	170
3.1.4.48.2	Elements	170
3.1.4.48.2.1	GetChanges2	170
3.1.4.48.2.2	GetChanges2Response	171
3.1.4.48.3	Complex Types	171
3.1.4.48.4	Simple Types	171
3.1.4.48.5	Attributes	171
3.1.4.48.6	Groups	171
3.1.4.48.7	Attribute Groups	171
3.1.4.49	GetSessionDataWithTermStoreId	171
3.1.4.49.1	Messages	172
3.1.4.49.1.1	IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_InputMessage	172
3.1.4.49.1.2	IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_OutputMessage	172
3.1.4.49.2	Elements	172
3.1.4.49.2.1	GetSessionDataWithTermStoreId	172
3.1.4.49.2.2	GetSessionDataWithTermStoreIdResponse	174
3.1.4.49.3	Complex Types	174
3.1.4.49.4	Simple Types	174
3.1.4.49.5	Attributes	175
3.1.4.49.6	Groups	175
3.1.4.49.7	Attribute Groups	175
3.1.4.50	GetTermSetWithAllTermsLimitedMembership	175
3.1.4.50.1	Messages	175
3.1.4.50.1.1	IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_InputMessage	175
3.1.4.50.1.2	IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_OutputMessage	176
3.1.4.50.2	Elements	176
3.1.4.50.2.1	GetTermSetWithAllTermsLimitedMembership	176
3.1.4.50.2.2	GetTermSetWithAllTermsLimitedMembershipResponse	176
3.1.4.50.3	Complex Types	177
3.1.4.50.4	Simple Types	177
3.1.4.50.5	Attributes	177
3.1.4.50.6	Groups	177
3.1.4.50.7	Attribute Groups	177
3.1.4.51	ImportPartitionData2	177
3.1.4.51.1	Messages	177
3.1.4.51.1.1	IMetadataWebServiceApplication_ImportPartitionData2_InputMessage	177
3.1.4.51.1.2	IMetadataWebServiceApplication_ImportPartitionData2_OutputMessage	177
3.1.4.51.2	Elements	178

3.1.4.51.2.1	ImportPartitionData2.....	178
3.1.4.51.2.2	ImportPartitionData2Response	178
3.1.4.51.3	Complex Types	178
3.1.4.51.4	Simple Types	178
3.1.4.51.5	Attributes	178
3.1.4.51.6	Groups.....	178
3.1.4.51.7	Attribute Groups.....	179
3.1.5	Timer Events.....	179
3.1.6	Other Local Events.....	179
4	Protocol Examples	180
5	Security	186
5.1	Security Considerations for Implementers	186
5.2	Index of Security Parameters	186
6	Appendix A: Full WSDL	187
7	Appendix B: Product Behavior	237
8	Change Tracking.....	239
9	Index.....	240

Preliminary

1 Introduction

The Metadata Shared Service WCF Service Protocol is used to communicate with an application that manages a store of structured metadata. Typical operations include searching for and retrieving metadata values and parameters, creating new metadata values, configuring parameters on metadata values, and configuring the general behavior of the metadata application.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

access control list (ACL): A list of access control entries (ACEs) that collectively describe the security rules for authorizing access to some resource; for example, an object or set of objects.

base64 encoding: A binary-to-text encoding scheme whereby an arbitrary sequence of bytes is converted to a sequence of printable ASCII characters, as described in [\[RFC4648\]](#).

cabinet (.cab) file: A single file that stores multiple compressed files to facilitate storage or transmission.

child: An object that is immediately below the current object in a hierarchy.

content database: A database that is stored on a back-end database server and contains stored procedures, site collections, and the contents of those site collections.

content type: A named and uniquely identifiable collection of settings and fields that store metadata for individual items in a SharePoint list. One or more content types can be associated with a list, which restricts the contents to items of those types.

content type identifier: A unique identifier that is assigned to a **content type**.

content type package: A file that contains the definition of and related objects for a **content type**.

content type subscriber: A site collection that is connected to a shared service application that provides **content types**.

Coordinated Universal Time (UTC): A high-precision atomic time standard that approximately tracks Universal Time (UT). It is the basis for legal, civil time all over the Earth. Time zones around the world are expressed as positive and negative offsets from UTC. In this role, it is also referred to as Zulu time (Z) and Greenwich Mean Time (GMT). In these specifications, all references to UTC refer to the time at UTC-0 (or GMT).

deployment package: A collection of files that represent a serialized snapshot of data. A deployment package is stored as **XML** files that describe the deployment objects and their relationships, and a binary file for each object. Optionally, the resulting set of files can be compressed into one or more files in the compressed PRIME data format (CMP).

descendant: A member that is below the current member in a hierarchy.

endpoint: A communication port that is exposed by an application server for a specific shared service and to which messages can be addressed.

field: A container for metadata within a SharePoint list and associated list items.

folder: A file system construct. File systems organize a volume's data by providing a hierarchy of objects, which are referred to as folders or directories, that contain files and can also contain other folders.

globally unique identifier (GUID): A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [\[RFC4122\]](#) or [\[C706\]](#) must be used for generating the **GUID**. See also universally unique identifier (UUID).

Hypertext Transfer Protocol (HTTP): An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

Hypertext Transfer Protocol Secure (HTTPS): An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [\[SSL3\]](#) and [\[RFC5246\]](#).

internal identifier: An integer that uniquely identifies any item in a **term store**.

language code identifier (LCID): A 32-bit number that identifies the user interface human language dialect or variation that is supported by an application or a client computer.

login name: A string that is used to identify a user or entity to an operating system, directory service, or distributed system. For example, in Windows-integrated authentication, a login name uses the form "DOMAIN\username".

merged term: A single **term** that is the combination of and has the semantic meaning of two, previously distinct terms.

orphaned term: A **term** whose source term was deleted.

partition: An area within a shared services database, such as an area that isolates different tenants within a service, or the process of creating such an area in a shared services database.

partition identifier: A GUID that identifies a **partition**.

reused term: A **term** that has instances in more than one term set.

security principal: An identity that can be used to regulate access to resources. A security principal can be a user, a computer, or a group that represents a set of users.

service application: A middle-tier application that runs without any user interface components and supports other applications by performing tasks such as retrieving or modifying data in a database.

session: A representation of application data in system memory. It is used to maintain state for application data that is being manipulated or monitored on a protocol server by a user.

site collection: A set of websites that are in the same **content database**, have the same owner, and share administration settings. A site collection can be identified by a **GUID** or the **URL** of the top-level site for the site collection. Each site collection contains a top-level site, can contain one or more subsites, and can have a shared navigational structure.

site subscription: A logical grouping of **site collections** that share a common set of features and service data.

SOAP: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses **XML** technologies to define an extensible messaging framework,

which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

SOAP action: The HTTP request header field used to indicate the intent of the **SOAP** request, using a **URI** value. See [\[SOAP1.1\]](#) section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a SOAP message to its recipient. See [\[SOAP1.2-1/2007\]](#) section 5.3 for more information.

SOAP fault: A container for error and status information within a SOAP message. See [\[SOAP1.2-1/2007\]](#) section 5.4 for more information.

source term: A specific instance of a **term**, in a specific term set, that is used to define permissions for the term.

term: A concept or an idea that is stored and can be used as metadata.

term label: A string that is used as the display value for a term. Each term label is associated with a specific language.

term label path: A string that contains the labels for a term and the labels for all of its parent terms.

term set: A collection of terms that are arranged into and stored as a hierarchy or a flat list.

term set group: A collection of **term sets**.

term store: A database in which managed metadata is stored in the form of **term sets** and **terms**.

Uniform Resource Identifier (URI): A string that identifies a resource. The URI is an addressing mechanism defined in Internet Engineering Task Force (IETF) Uniform Resource Identifier (URI): Generic Syntax [\[RFC3986\]](#).

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [\[RFC1738\]](#).

Universal Naming Convention (UNC): A string format that specifies the location of a resource. For more information, see [\[MS-DTYP\]](#) section 2.2.57.

web application: A container in a configuration database that stores administrative settings and entry-point **URLs** for **site collections**.

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

workflow: A structured modular component that enables the automated movement of documents or items through a specific sequence of actions or tasks that are related to built-in or user-defined business processes.

workflow association: An association of a workflow template to a specific list or content type.

workflow template: A definition of operations, the sequence of operations, constraints, and timing for a specific process.

WSDL message: An abstract, typed definition of the data that is communicated during a **WSDL operation** [WSDL]. Also, an element that describes the data being exchanged between web service providers and clients.

WSDL operation: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

XML: The Extensible Markup Language, as described in [XML1.0].

XML namespace: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [RFC3986]. A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [XMLNS-2ED].

XML namespace prefix: An abbreviated form of an **XML namespace**, as described in [XML].

XML Schema (XSD): A language that defines the elements, attributes, namespaces, and data types for **XML** documents as defined by [XMLSCHEMA1/2] and [XMLSCHEMA2/2] standards. An XML schema uses **XML** syntax for its language.

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

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

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.

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

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

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

[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.rfc-editor.org/rfc/rfc2616.txt>

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[SOAP1.2-1/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 1: Messaging Framework (Second Edition)", W3C Recommendation, April 2007, <http://www.w3.org/TR/2007/REC-soap12-part1-20070427/>

[SOAP1.2-2/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 2: Adjuncts (Second Edition)", W3C Recommendation, April 2007, <http://www.w3.org/TR/2007/REC-soap12-part2-20070427>

[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>

[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>

[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., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "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-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol](#)".

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

1.3 Protocol Overview (Synopsis)

This protocol specifies a set of operations for applications, such as content management systems, document authoring applications, and line of business systems, to read from, write to, and manage metadata in a centrally-managed store.

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2-1/2007\]](#) and [\[SOAP1.2-2/2007\]](#). 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:

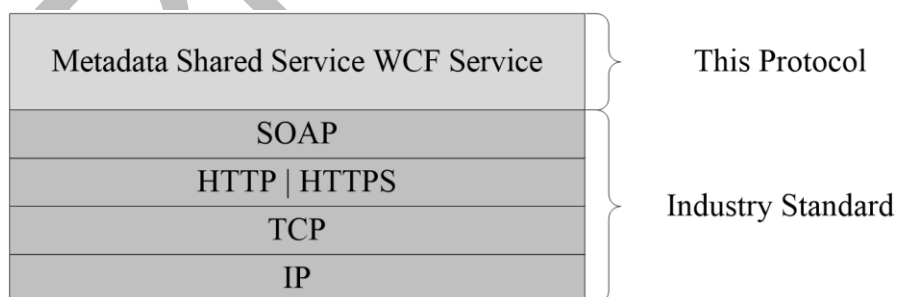


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint URIs** that are known by protocol clients. The endpoint 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 URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either this protocol or the topology service protocol described in [\[MS-SPTWS\]](#).

This protocol requires the protocol client to have appropriate permission to call the operations 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 for requests and submissions that are less than 50 megabytes in size to a protocol server.

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 described 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 **HTTP** or **HTTPS**.

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

Protocol messages MUST be formatted as specified in either [\[SOAP1.1\]](#) section 4 or [\[SOAP1.2-1/2007\]](#) section 5. Protocol server faults MUST be returned by using either HTTP status codes, as specified in [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified in [\[SOAP1.1\]](#) section 4.4 or [\[SOAP1.2-1/2007\]](#) section 5.4.

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

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

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

2.2 Common Message Syntax

This section contains common definitions 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 **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates an **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
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.microsoft.com/sharepoint/taxonomy/soap/	
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[SOAP1.2-1/2007] [SOAP1.2-2/2007]
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]

Prefix	Namespace URI	Reference
wsam	http://www.w3.org/2007/05/addressing/metadata/	[WSA1.0 Metadata]
ser	http://schemas.microsoft.com/2003/10/Serialization/	
sera	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
mst	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy	
mstc	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentTypeSync	
q72	http://schemas.microsoft.com/Message	
q74	http://schemas.microsoft.com/Message	
q76	http://schemas.microsoft.com/Message	

2.2.2 Messages

This specification does not define any common WSDL message definitions.

2.2.3 Elements

This specification does not define any XML schema element definitions.

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
ArrayOfguid	A collection of GUID values.
ArrayOfint	A collection of integer values.
ChangeDataForAddTermSet	Change data for a term set being created.
ChangeDataForAddTermSetMembership	Change data for a term being added to a term set.
ChangeDataForAddUsedTerm	Change data for a term being used on a site collection .
ChangeDataForDeleteTerm	Change data for a list of terms being deleted.
ChangeDataForMergeTerm	Change data for a term being merged.
ChangeDataForMoveOrUpdateTermSetMembership	Change data for a term being moved or updated.
ChangeDataForRestoreTermStore	Change data for a change to restore the term store .
ChangeDataForSetDefaultLanguage	Change data for a change to the default language for the term store.
ChangeDataForUpdateTerm	Change data for a term is being updated. <1>
ChangeDataForUpdateTermSet	Change data for a term set is being moved or updated.

Complex Type	Description
GetApplicationLogRoot	An implementation-specific<2> log of data generated for content type publication, the contents of which MUST be ignored.
GetChangesRoot	A list of changes made to the term store.
GetGroupsAndTermSetsRoot	Information about the groups that contain one or more term sets, information about those term sets, and the root terms for each term set.
GetGroupsRoot	Information about one or more term set groups .
GetServiceSettingsRoot	A setting for a term store partition .
GetSessionDataRoot	Specifies session-related data for the specified term store partition.
GetTermRoot	Information about one or more terms.
GetUpdateInformationRoot	The updates in a content type package .
KeywordTermSetIdIndicator	Specifies identifier for the keyword term set in a term store partition.
NewPartitionIndicator	This is used to indicate whether this is the first time that a given partition has been used.<3> The partition in question is defined by the rawPartitionID of the GetSessionData request.
OrphanedTermSetIdIndicator	Specifies identifier for the orphaned terms term set in a term store partition.
SearchedTermsRoot	Information about terms matching search criteria. This element MUST conform to the schema of one of the GetTermRoot (section 2.2.4.17), SearchedTermsRootOptimized (section 2.2.4.20), or SearchedTermsRootStandard types (section 2.2.4.21).
SearchedTermsRootOptimized	Information about terms in a specific term store partition. This type contains a subset of the data from the SearchedTermsRootStandard (section 2.2.4.21), excluding group and permission data.
SearchedTermsRootStandard	Information about terms in a specific term store partition.
SerializedECMChangeLogTableRow	<p>A change to the term store. For each object type, valid combinations of change type, data type, and meaning are as follows:</p> <ul style="list-style-type: none"> ▪ Object Type: 1 (Term) <ul style="list-style-type: none"> ▪ 1 (Add) - ChangeDataForAddTermSetMembership - Term added to term set. ▪ 5 (Copy) - ChangeDataForAddTermSetMembership - Term created by copying from another Term. ▪ 4 (Move) - ChangeDataForMoveOrUpdateTermSetMembership - Term moved within term set or to a

Complex Type	Description
	<p>different term set.</p> <ul style="list-style-type: none"> ▪ 3 (Delete) - ChangeDataForDeleteTerm - Term deleted. ▪ 7 (Merge) - ChangeDataForMergeTerm - Term merged. ▪ Object Type: 2 (TermSet) <ul style="list-style-type: none"> ▪ 1 (Add) - ChangeDataForAddTermSet - Term set created. ▪ 5 (Copy) - ChangeDataForAddTermSet - Term set created by copying from another term set. ▪ 4 (Move) - ChangeDataForUpdateTermSet - Term set moved to different term set group. ▪ 2 (Edit) - None - Term set edited without moving to different term set group. ▪ 3 (Delete) - None - Term set deleted. ▪ Object Type: 3 (Group) <ul style="list-style-type: none"> ▪ 1 (Add) - None - Term set group created. ▪ 2 (Edit) - None - Term set group updated. ▪ 3 (Delete) - None - Term set group deleted. ▪ Object Type: 4 (TermStore) <ul style="list-style-type: none"> ▪ 1 (Add) - ChangeDataForAddOrDeleteLanguage - Language added to a term store. ▪ 3 (Delete) - ChangeDataForAddOrDeleteLanguage - Language deleted from a term store. ▪ 2 (Edit) - ChangeDataForSetDefaultLanguage - Default language changed for term store. ▪ 2 (Edit) - None - Creating, updating or deleting an access control list (ACL) for the term store or term set group. ▪ Object Type: 5 (Site) <ul style="list-style-type: none"> ▪ 1 (Add) - ChangeDataForAddUsedTerm - Using a Term in a site collection for the first time.
SerializedECMChangeLogTableTimeOnlyRow	Specifies a timestamp.
SerializedECMChildTermTableRow	A term that is a child of the parent term.
SerializedECMGroupIdsTableRow	Specifies internal identifier for a term set group in a term store partition.
SerializedECMGroupTableRow	A term set group.

Complex Type	Description
SerializedECMGroupTermSetIdsTableRow	Information about a term set group of which a term set is a member.
SerializedECMLanguageTableRow	A language for a term store partition.
SerializedECMPermissionTableRow	A permission setting.
SerializedECMRootTermTableRow	A root term.
SerializedECMServiceSettingsTableRow	Settings for a term store partition.
SerializedECMTermDescriptionTableRowBase	A description of a term. This element specifies the base attributes shared by both SerializedECMTermDescriptionTableRowForRead (section 2.2.4.31) and SerializedECMTermDescriptionTableRowForWrite (section 3.1.4.40.3.5).
SerializedECMTermDescriptionTableRowForRead	A description of a term.
SerializedECMTermLabelTableRowBase	A term label for a term. This element specifies the base attributes shared by both SerializedECMTermLabelTableRowForRead (section 2.2.4.33) and SerializedECMTermLabelTableRowForWrite (section 3.1.4.40.3.4).
SerializedECMTermLabelTableRowForRead	A term label for a term.
SerializedECMTermPropertyTableRowBase	A property of a term. This element specifies the base attributes shared by both SerializedECMTermPropertyTableRowForRead (section 2.2.4.35) and SerializedECMTermPropertyTableRowForWrite (section 3.1.4.40.3.6).
SerializedECMTermPropertyTableRowForRead	A property of a term.
SerializedECMTermSetMembershipTableRowBase	Information about a term set of which a term is a member. This element specifies the base attributes shared by both SerializedECMTermSetMembershipTableRowForRead (section 2.2.4.37) and SerializedECMTermSetMembershipTableRowForWrite (section 3.1.4.40.3.7).
SerializedECMTermSetMembershipTableRowForRead	Information about a term set of which a term is a member.
SerializedECMTermSetTableRow	A term set.
SerializedECMTermTableRowForRead	A term returned with the results in the containing element. The following attributes MUST be present: a0, a6, a7, a8, a9, a14, a19, a20, a21, a22 .
ServiceSettings	The settings for a term store partition.
ServiceSettingsSettingsXmlDoc	The settings for a term store partition.
SystemGroupIdIndicator	Specifies identifier for the system term set group in a term store partition.
WorkflowData	This type specifies one or more workflow associations for a content type.

2.2.4.1 ArrayOfguid

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

A collection of **GUID** values.

```
<xs:complexType name="ArrayOfguid">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

guid: GUID value.

2.2.4.2 ArrayOfint

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

A collection of integer values.

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

int: Integer value.

2.2.4.3 ChangeDataForAddTermSet

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a **term set** being created.

```
<xs:complexType name="ChangeDataForAddTermSet">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="FromTermSetId"
            type="InternalIdentifier"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.FromTermSetId: **Internal identifier** of the term set from which this term set is copied.

2.2.4.4 ChangeDataForAddTermSetMembership

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a **term** being added to a **term set**.

```
<xs:complexType name="ChangeDataForAddTermSetMembership">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="PTId" type="InternalIdentifier"/>
          <xs:element minOccurs="0" maxOccurs="1" name="SourceId" type="InternalIdentifier"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.PTId: **Internal identifier** of the parent term of the term being added. Zero if the term does not have parent term.

Data.SourceId: Internal identifier of the term from which the newly added term was copied. The word "source" here is unrelated to the concept of a **source term**.

2.2.4.5 ChangeDataForAddUsedTerm

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a **term** being used on a **site collection**.

```
<xs:complexType name="ChangeDataForAddUsedTerm">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="SiteGuid" type="ser:guid"/>
          <xs:element minOccurs="1" maxOccurs="1" name="TermSetId" type="ser:guid"/>
          <xs:element minOccurs="1" maxOccurs="1" name="TermId" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.SiteGuid: Identifier of the site collection.

Data.TermSetId: Identifier of the **term set** of the term being added.

Data.TermId: Identifier of the term being added.

2.2.4.6 ChangeDataForDeleteTerm

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a list of **terms** being deleted.

```
<xs:complexType name="ChangeDataForDeleteTerm">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Data">
```



```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="PTId" type="InternalIdentifier"/>
    <xs:element minOccurs="1" maxOccurs="unbounded" name="row">
      <xs:complexType>
        <xs:attribute name="TId" type="InternalIdentifier" use="required"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

Data: Root element.

Data.PTId: **Internal identifier** of the parent term of the terms being deleted.

Data.row: A term being deleted.

Data.row.TId: Internal identifier of the deleted term.

2.2.4.7 ChangeDataForMergeTerm

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

Change data for a term being merged.

```

<xs:complexType name="ChangeDataForMergeTerm">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="TTId" type="InternalIdentifier"/>
          <xs:element minOccurs="1" maxOccurs="1" name="PTId" type="InternalIdentifier"/>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="row">
            <xs:complexType>
              <xs:attribute name="TId" type="InternalIdentifier" use="required"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

Data: Root element.

Data.TTId: **Internal identifier** of the target **term** of the merge operation into which the term is being merged.

Data.PTId: Internal identifier of a parent term of the term being merged.

Data.row: A term that is a **child** of the term being merged.

Data.row.TId: Internal identifier of the child term.

2.2.4.8 ChangeDataForMoveOrUpdateTermSetMembership

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

Change data for a term being moved or updated.

```
<xs:complexType name="ChangeDataForMoveOrUpdateTermSetMembership">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="PTId" type="InternalIdentifier"/>
          <xs:element minOccurs="1" maxOccurs="1" name="STSId" type="InternalIdentifier"/>
          <xs:element minOccurs="1" maxOccurs="1" name="SPTId" type="InternalIdentifier"/>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="row">
            <xs:complexType>
              <xs:attribute name="TId" type="InternalIdentifier" use="required"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.PTId: **Internal identifier** of the updated parent term for the term. 0 if the **term** does not have parent term.

Data.STSId: Internal identifier of the original **term set** for the term.

Data.SPTId: Internal identifier of the original parent term for the term. 0 if the term does not have original parent term.

Data.row: A **descendant** term of the updated term.

Data.row.TId: Internal identifier of the descendant term.

2.2.4.9 ChangeDataForRestoreTermStore

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a change to restore the **term store**.

```
<xs:complexType name="ChangeDataForRestoreTermStore">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="IsFullFarmRestore"
            type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.IsFullFarmRestore: A value indicating whether it is a full farm restore.

2.2.4.10 ChangeDataForSetDefaultLanguage

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a change to the default language for the **term store**.

```
<xs:complexType name="ChangeDataForSetDefaultLanguage">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="FromLanguage" type="LCID"/>
          <xs:element minOccurs="1" maxOccurs="1" name="ToLanguage" type="LCID"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.FromLanguage: The previous default **language code identifier (LCID)** for the term store.

Data.ToLanguage: The new default LCID for the term store.

2.2.4.11 ChangeDataForUpdateTermSet

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a **term set** is being moved or updated.

```
<xs:complexType name="ChangeDataForUpdateTermSet">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="FromGroupGuid" type="ser:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.FromGroupGuid: Identifier of the **term set group** from which the term set is being moved or updated.

2.2.4.12 GetApplicationLogRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

An implementation-specific [<4>](#) log of data generated for **content type** publication, the contents of which MUST be ignored.

```
<xs:complexType name="GetApplicationLogRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" name="AL">
            <xs:complexType>
              <xs:attribute name="a63" type="xs:string" use="required"/>
              <xs:attribute name="a64" type="xs:string" use="optional"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```

        <xs:attribute name="a65" type="mstc:SyndicationStatus" use="required"/>
        <xs:attribute name="a66" type="xs:string" use="required"/>
        <xs:attribute name="a7" type="xs:dateTime" use="required"/>
    </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.AL: A log entry.

Root.AL.a63: The **URL** of a site for which the log entry is generated.

Root.AL.a64: The name of the object for which the log entry is generated.

Root.AL.a65: The implementation specific name of the content type publication stage for which the log entry is generated.

Root.AL.a66: The implementation specific contents of the log entry.

Root.AL.a7: The **UTC** time when the log entry is generated.

2.2.4.13 GetChangesRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A list of changes made to the **term store**.

```

<xs:complexType name="GetChangesRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="CL"
            type="SerializedECMChangeLogTableRow"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.CL: Details of a change.

2.2.4.14 GetGroupsAndTermSetsRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Information about the groups that contain one or more **term sets**, information about those term sets, and the root terms for each term set.

```

<xs:complexType name="GetGroupsAndTermSetsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>

```

```

    <xs:sequence>
      <xs:element maxOccurs="unbounded" name="G" type="SerializedECMGroupTableRow"/>
      <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
      <xs:element maxOccurs="unbounded" name="P" type="SerializedECMPermissionTableRow"/>
      <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
      <xs:element maxOccurs="unbounded" name="GTSIds"
type="SerializedECMGroupTermSetIdsTableRow"/>
      <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
      <xs:element maxOccurs="unbounded" name="TS" type="SerializedECMTermSetTableRow"/>
      <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="RT"
type="SerializedECMRootTermTableRow"/>
      <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.G: A **SerializedECMGroupTableRow** (section [2.2.4.24](#)) for each **term set group** that contains the term sets in "Root.TS".

Root.NextResult: Separates the preceding set of results of one type from the next set of a different type.

Root.P: A **SerializedECMPermissionTableRow** (section [2.2.4.27](#)) for each **security principal** that has permissions assigned to the term set groups.

Root.GTSIds: A **SerializedECMGroupTermSetIdsTableRow** (section [2.2.4.25](#)) for each term set.

Root.TS: A **SerializedECMTermSetTableRow** (section [2.2.4.38](#)) for each term set.

Root.RT: A **SerializedECMRootTermTableRow** (section [2.2.4.28](#)) for the root **terms** for each term set.

Root.TP: A **SerializedECMTermPropertyTableRowForRead** element (section [2.2.4.35](#)) for each term set.

2.2.4.15 GetGroupsRoot

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

Information about one or more **term set groups**.

```

<xs:complexType name="GetGroupsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" name="G" type="SerializedECMGroupTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="P" type="SerializedECMPermissionTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="GTSIds"
type="SerializedECMGroupTermSetIdsTableRow"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

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

Root: Root element.

Root.G: A **SerializedECMGroupTableRow** (section [2.2.4.24](#)) for each term set group.

Root.NextResult: Separates the preceding set of results of one type from the next set of a different type.

Root.P: A **SerializedECMPermissionTableRow** (section [2.2.4.27](#)) for each **security principal** that has permissions assigned to the term set groups.

Root.GTSTIds: A **SerializedECMGroupTermSetIdsTableRow** (section [2.2.4.25](#)) for each **term set**.

2.2.4.16 GetServiceSettingsRoot

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A setting for a **term store partition**.

```
<xs:complexType name="GetServiceSettingsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="SS" type="SerializedECMServiceSettingsTableRow"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Root: Root element.

Root.SS: A setting.

2.2.4.17 GetTermRoot

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

Information about one or more **terms**.

```
<xs:complexType name="GetTermRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" name="T"
            type="SerializedECMTermTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TL"
            type="SerializedECMTermLabelTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TD"
            type="SerializedECMTermDescriptionTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TM"
            type="SerializedECMTermSetMembershipTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```

        <xs:element minOccurs="0" maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead"/>
        <xs:element minOccurs="0" maxOccurs="1" name="NextResult"/>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="CT"
type="SerializedECMChildTermTableRow"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.T: A **SerializedECMTermTableRowForRead** element (section [2.2.4.39](#)) for each term.

Root.NextResult: Separates the preceding set of results of one type from the next set of a different type.

Root.TL: A **SerializedECMTermLabelTableRowForRead** element (section [2.2.4.33](#)) for each **term label** belonging to the terms.

Root.TD: A **SerializedECMTermDescriptionTableRowForRead** element (section [2.2.4.31](#)) for each term.

Root.TM: A **SerializedECMTermSetMembershipTableRowForRead** element (section [2.2.4.37](#)) for each term.

Root.TP: A **SerializedECMTermPropertyTableRowForRead** element (section [2.2.4.35](#)) for each term.

Root.CT: A **SerializedECMChildTermTableRow** (section [2.2.4.23](#)) for each term that is a **child** of the terms.

2.2.4.18 GetUpdateInformationRoot

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

The updates in a **content type package**.

```

<xs:complexType name="GetUpdateInformationRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="P">
            <xs:complexType>
              <xs:attribute name="PIId" type="ContentTypeId" use="required"/>
              <xs:attribute name="PType" type="ser:guid" use="required"/>
              <xs:attribute name="PP" type="xs:boolean" use="required"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="T" type="xs:dateTime"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.P: An update.

Root.P.PId: The identifier of the **content type**.

Root.P.PType: The identifier of the type of object in the package. The value MUST be "B4AD3A44-D934-4C91-8D1F-463ACEADE443".

Root.P.PP: Whether the content type is published.

Root.T: The last update time of the content type package.

2.2.4.19 SearchedTermsRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Information about **terms** matching search criteria. This element MUST conform to the schema of one of the **GetTermRoot** (section [2.2.4.17](#)), **SearchedTermsRootOptimized** (section [2.2.4.20](#)), or **SearchedTermsRootStandard** types (section [2.2.4.21](#)).

```
<xs:complexType name="SearchedTermsRoot">
  <xs:sequence>
    <xs:any/>
  </xs:sequence>
</xs:complexType>
```

2.2.4.20 SearchedTermsRootOptimized

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Information about **terms** in a specific **term store partition**. This type contains a subset of the data from the **SearchedTermsRootStandard** (section [2.2.4.21](#)), excluding group and permission data.

```
<xs:complexType name="SearchedTermsRootOptimized">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TS"
            type="SerializedECMTermSetTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="T"
            type="SerializedECMTermTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TL"
            type="SerializedECMTermLabelTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TD"
            type="SerializedECMTermDescriptionTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TM"
            type="SerializedECMTermSetMembershipTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TP"
            type="SerializedECMTermPropertyTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="CT"
            type="SerializedECMChildTermTableRow"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```


Root: Root element.

Root.TS: A **SerializedECMTermSetTableRow** element (section [2.2.4.38](#)) for each **term set** that contains one or more of the terms. There MUST be one or more **Root.TS** elements for each **Root.T** element.

Root.NextResult: Separates the preceding set of results of one type from the next set of a different type.

Root.T: A **SerializedECMTermTableRowForRead** element (section [2.2.4.39](#)) for each term.

Root.TL: A **SerializedECMTermLabelTableRowForRead** element (section [2.2.4.33](#)) for each **term label** of each term. There MUST be one or more **Root.TL** elements for each **Root.T** element.

Root.TD: A **SerializedECMTermDescriptionTableRowForRead** element (section [2.2.4.31](#)) for the description of each term. There MUST be 0 or 1 **Root.TD** elements for each **Root.T** element.

Root.TM: A **SerializedECMTermSetMembershipTableRowForRead** element (section [2.2.4.37](#)) for each term. There MUST be one or more **Root.TM** elements for each **Root.T** element.

Root.TP: A **SerializedECMTermPropertyTableRowForRead** element (section [2.2.4.35](#)) for each custom property of the terms.

Root.CT: A **SerializedECMChildTermTableRow** element (section [2.2.4.23](#)) for each term that is a **child** of the terms.

2.2.4.21 SearchedTermsRootStandard

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

Information about **terms** in a specific **term store partition**.

```
<xs:complexType name="SearchedTermsRootStandard">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" name="G" type="SerializedECMGroupTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="P" type="SerializedECMPermissionTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="GTSIds"
type="SerializedECMGroupTermSetIdsTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TS" type="SerializedECMTermSetTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="RT" type="SerializedECMRootTermTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="T"
type="SerializedECMTermTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TL"
type="SerializedECMTermLabelTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TD"
type="SerializedECMTermDescriptionTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TM"
type="SerializedECMTermSetMembershipTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="CT" type="SerializedECMChildTermTableRow"/>
        
```

```

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

```

Root: Root element.

Root.G: A **SerializedECMGroupTableRow** (section [2.2.4.24](#)) for each **term set group** that contains the **term sets** in **Root.TS**.

Root.NextResult: Separates the preceding set of results of one type from the next set of a different type.

Root.P: A **SerializedECMPermissionTableRow** (section [2.2.4.27](#)) for each **security principal** that has permissions assigned to the term set groups.

Root.GTSIds: A **SerializedECMGroupTermSetIdsTableRow** element (section [2.2.4.25](#)) for each term set. There MUST be one or more **Root.GTSIds** elements for each **Root.G** element.

Root.TS: A **SerializedECMTermSetTableRow** element (section [2.2.4.38](#)) for each term set that contains one or more of the terms. There MUST be one or more **Root.TS** elements for each **Root.T** element.

Root.RT: A **SerializedECMRootTermTableRow** element (section [2.2.4.28](#)) for the root terms for each term set.

Root.T: A **SerializedECMTermTableRowForRead** element (section [2.2.4.39](#)) for each term.

Root.TL: A **SerializedECMTermLabelTableRowForRead** element (section [2.2.4.33](#)) for each **term label** of each term. There MUST be one or more **Root.TL** elements for each **Root.T** element.

Root.TD: A **SerializedECMTermDescriptionTableRowForRead** element (section [2.2.4.31](#)) for the description of each term. There MUST be zero or 1 **Root.TD** elements for each **Root.T** element.

Root.TM: A **SerializedECMTermSetMembershipTableRowForRead** element (section [2.2.4.37](#)) for each term. There MUST be one or more **Root.TM** elements for each **Root.T** element.

Root.TP: A **SerializedECMTermPropertyTableRowForRead** element (section [2.2.4.35](#)) for each custom property of the terms.

Root.CT: A **SerializedECMChildTermTableRow** element (section [2.2.4.23](#)) for each term that is a **child** of the terms.

2.2.4.22 SerializedECMChangeLogTableRow

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A change to the **term store**. For each object type, valid combinations of change type, data type, and meaning are as follows:

- Object Type: 1 (Term)
 - 1 (Add) - **ChangeDataForAddTermSetMembership** - **Term** added to **term set**.
 - 5 (Copy) - **ChangeDataForAddTermSetMembership** - Term created by copying from another Term.
 - 4 (Move) - **ChangeDataForMoveOrUpdateTermSetMembership** - Term moved within term set or to a different term set.

- 3 (Delete) - **ChangeDataForDeleteTerm** - Term deleted.
- 7 (Merge) - **ChangeDataForMergeTerm** - Term merged.
- Object Type: 2 (TermSet)
 - 1 (Add) - **ChangeDataForAddTermSet** - Term set created.
 - 5 (Copy) - **ChangeDataForAddTermSet** - Term set created by copying from another term set.
 - 4 (Move) - **ChangeDataForUpdateTermSet** - Term set moved to different **term set group**.
 - 2 (Edit) - None - Term set edited without moving to different term set group.
 - 3 (Delete) - None - Term set deleted.
- Object Type: 3 (Group)
 - 1 (Add) - None - Term set group created.
 - 2 (Edit) - None - Term set group updated.
 - 3 (Delete) - None - Term set group deleted.
- Object Type: 4 (TermStore)
 - 1 (Add) - **ChangeDataForAddOrDeleteLanguage** - Language added to a term store.
 - 3 (Delete) - **ChangeDataForAddOrDeleteLanguage** - Language deleted from a term store.
 - 2 (Edit) - **ChangeDataForSetDefaultLanguage** - Default language changed for term store.
 - 2 (Edit) - None - Creating, updating or deleting an **access control list (ACL)** for the term store or term set group.
- Object Type: 5 (Site)
 - 1 (Add) - **ChangeDataForAddUsedTerm** - Using a Term in a **site collection** for the first time.

```
<xs:complexType name="SerializedECMChangeLogTableRow">
  <xs:attribute name="a0" type="ser:guid" use="required"/>
  <xs:attribute name="a48" type="ser:guid" use="optional"/>
  <xs:attribute name="a49" type="ser:guid" use="optional"/>
  <xs:attribute name="a50" type="ser:guid" use="optional"/>
  <xs:attribute name="a51" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a52" type="mst:ChangedItemType" use="required"/>
  <xs:attribute name="a53" type="mst:ChangedOperationType" use="required"/>
  <xs:attribute name="a54" type="xs:date" use="required"/>
  <xs:attribute name="a55" type="xs:string" use="optional"/>
  <xs:attribute name="a56" type="UserName" use="optional"/>
</xs:complexType>
```

a0: The identifier of the term store **partition**.

a48: The identifier of a term set group. The value MUST be NULL if the change is not scoped inside a term set group, for example, a language or permissions changes.

a49: The identifier of a term set. The value MUST be NULL if the change is not scoped inside a term set, for example, language or permissions changes.

a50: The identifier of the object being changed. The value MUST be NULL if the change is not for a specific object, for example, language or permissions changes.

a51: The **internal identifier** of the object being changed. The value MUST be NULL if the change is not for a specific object, for example, language or permissions changes.

a52: The type of the object, which MUST be a value specified in the preceding list.

a53: The type of the change, which MUST be a value specified in the preceding list.

a54: The **UTC** time when the change happened.

a55: The details of the change. If used, it MUST be one of the following types:

- **ChangeDataForAddOrDeleteLanguage** (section [2.2.5.1](#))
- **ChangeDataForSetDefaultLanguage** (section [2.2.4.10](#))
- **ChangeDataForAddTermSetMembership** (section [2.2.4.4](#))
- **ChangeDataForMoveOrUpdateTermSetMembership** (section [2.2.4.8](#))
- **ChangeDataForAddTermSet** (section [2.2.4.3](#))
- **ChangeDataForUpdateTermSet** (section [2.2.4.11](#))
- **ChangeDataForDeleteTerm** (section [2.2.4.6](#))
- **ChangeDataForMergeTerm** (section [2.2.4.7](#))
- **ChangeDataForAddUsedTerm** (section [2.2.4.5](#))
- **ChangeDataForUpdateTerm** (section [2.2.4.43](#))<5>

a56: Reserved. The value MUST be NULL.

2.2.4.23 SerializedECMChildTermTableRow

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A **term** that is a **child** of the parent term.

```
<xs:complexType name="SerializedECMChildTermTableRow">
  <xs:attribute name="a25" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a24" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a57" type="InternalIdentifier" use="required"/>
</xs:complexType>
```

a25: The **internal identifier** of the parent term. If there is no parent term because the term is a root term, this MUST be zero.

a24: The internal identifier of the **term set** of the term.

a57: The internal identifier of the child term in the term set.

2.2.4.24 SerializedECMGroupTableRow

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A **term set group**.

```

<xs:complexType name="SerializedECMGroupTableRow">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="P"
type="SerializedECMPermissionTableRow"/>
  </xs:sequence>
  <xs:attribute name="a6" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a0" type="ser:guid" use="required"/>
  <xs:attribute name="a7" type="xs:dateTime" use="optional"/>
  <xs:attribute name="a8" type="xs:dateTime" use="optional"/>
  <xs:attribute name="a9" type="ser:guid" use="optional"/>
  <xs:attribute name="a12" type="xs:string" use="optional"/>
  <xs:attribute name="a11" type="xs:string" use="optional"/>
  <xs:attribute name="a15" type="GroupType" use="optional"/>
  <xs:attribute name="a5" type="CommandActionBasic" use="optional"/>
</xs:complexType>

```

P: Additions, deletions or updates to permissions for this term set group. The **a1** attribute of each of these elements MUST be equal to the **a6** attribute of the parent **G** element. If attribute **a5** of the parent **G** element is absent or has the value 2, then these **P** elements MUST be absent.

a6: The identifier of the term set group.

a0: The identifier of the **term store partition** to which the term set group belongs.

a7: The **UTC** time when the term set group was created.

a8: The UTC time of last modification of the term set group.

a9: The identifier of the term set group.

a12: The name of the term set group. This MUST be less than 255 characters in length. It MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

a11: The description of the term set group. This MUST be less than 1000 characters in length.

a15: The type of term set group.

a5: The type of write operation, which MUST be a value from the **CommandActionBasic** enumeration (section [2.2.5.3](#)). This attribute MUST be present when the parent element is a **WriteRoot** (section [3.1.4.40.3.1](#)) during a **Write** operation (section [3.1.4.40.2.1](#)); otherwise, it MUST NOT be present.

If the value is 2 (**Delete**), the **a12**, **a11**, **a15** attributes and **P** child elements MUST be absent.

If **a5** is absent, the following attributes MUST be present: **a0**, **a6**, **a7**, **a8**, **a9**, **a11**, **a12**, **a15**.

2.2.4.25 SerializedECMGroupTermSetIdsTableRow

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Information about a **term set group** of which a **term set** is a member.

```
<xs:complexType name="SerializedECMGroupTermSetIdsTableRow">
  <xs:attribute name="a1" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a6" type="InternalIdentifier" use="required"/>
</xs:complexType>
```

a1: The **internal identifier** of the term set group.

a6: The internal identifier of the term set.

2.2.4.26 SerializedECMLanguageTableRow

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A language for a **term store partition**.

```
<xs:complexType name="SerializedECMLanguageTableRow">
  <xs:attribute name="a0" type="ser:guid" use="required"/>
  <xs:attribute name="a59" type="LCID" use="required"/>
  <xs:attribute name="a58" type="xs:boolean" use="optional"/>
  <xs:attribute name="a5" type="CommandActionBasic" use="optional"/>
</xs:complexType>
```

a0: The identifier of the term store partition.

a59: The **LCID** of the language.

a58: Specifies whether the language is the default language for the term store partition.

a5: The type of write operation, which MUST be a value from the **CommandActionBasic** enumeration (section [2.2.5.3](#)). This attribute MUST be present when the parent element is a **WriteRoot** (section [3.1.4.40.3.1](#)) during a **Write** operation (section [3.1.4.40.2.1](#)), otherwise it MUST NOT be present.

If the value is 2 (**Delete**), the **a58** attribute MUST be absent.

2.2.4.27 SerializedECMPermissionTableRow

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A permission setting.

```
<xs:complexType name="SerializedECMPermissionTableRow">
  <xs:attribute name="a2" type="xs:string" use="required"/>
  <xs:attribute name="a3" type="xs:string" use="optional"/>
  <xs:attribute name="a4" type="Rights" use="optional"/>
  <xs:attribute name="a1" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a0" type="ser:guid" use="optional"/>
  <xs:attribute name="a5" type="CommandActionBasic" use="optional"/>
</xs:complexType>
```

a2: The **login name** of the user. This MUST be less than 255 characters in length.

a3: The display name of the user. This MUST be less than 255 characters in length.

a4: Permissions bitmask for the user.

a1: The **internal identifier** of a **term set group**. If this is during a **Write** operation (section [3.1.4.40.2.1](#)) and the parent is a **WriteRoot** (section [3.1.4.40.3.1](#)), the value of **a1** MUST be zero. If the parent is **SerializedECMGroupTableRow** (section [2.2.4.24](#)), the value of **a1** MUST be the same as the **a6** value of the parent.

a0: The identifier of the **term store partition** to which the term set group belongs.

a5: The type of write operation, which MUST be a value from the **CommandActionBasic** enumeration (section [2.2.5.3](#)). This attribute MUST be present when the parent element is a **WriteRoot** or a **SerializedECMGroupTableRow** during a **Write** operation, otherwise it MUST NOT be present.

If the value is 2 (**Delete**), the **a3** and **a4** attributes MUST be absent.

If **a5** is absent, the following attributes MUST be present: **a1**, **a2**, **a4**, and the **a0** attribute MUST be absent.

2.2.4.28 SerializedECMRootTermTableRow

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A root **term**.

```
<xs:complexType name="SerializedECMRootTermTableRow">
  <xs:attribute name="a24" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a34" type="InternalIdentifier" use="required"/>
</xs:complexType>
```

a24: The **internal identifier** of a **term set**.

a34: The internal identifier of a root term for the term set.

2.2.4.29 SerializedECMServiceSettingsTableRow

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

Settings for a **term store partition**.

```
<xs:complexType name="SerializedECMServiceSettingsTableRow">
  <xs:attribute name="a62" type="xs:string" use="required"/>
</xs:complexType>
```

a62: Settings for the term store partition, which is an XML encoded string that MUST conform to the schema of the **ServiceSettingsSettingsXmlDoc** complex type (section [2.2.4.41](#)).

2.2.4.30 SerializedECMTermDescriptionTableRowBase

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A description of a **term**. This element specifies the base attributes shared by both **SerializedECMTermDescriptionTableRowForRead** (section [2.2.4.31](#)) and **SerializedECMTermDescriptionTableRowForWrite** (section [3.1.4.40.3.5](#)).

```

<xs:complexType name="SerializedECMTermDescriptionTableRowBase">
  <xs:attribute name="a33" type="LCID" use="required"/>
  <xs:attribute name="a11" type="xs:string" use="required"/>
</xs:complexType>

```

a33: The **LCID** of the language for which the description applies.

a11: The description of a term. This MUST be less than 1000 characters in length.

2.2.4.31 SerializedECMTermDescriptionTableRowForRead

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A description of a **term**.

```

<xs:complexType name="SerializedECMTermDescriptionTableRowForRead">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermDescriptionTableRowBase">
      <xs:attribute name="a34" type="InternalIdentifier" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

a34: The **internal identifier** of the term.

2.2.4.32 SerializedECMTermLabelTableRowBase

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A **term label** for a **term**. This element specifies the base attributes shared by both **SerializedECMTermLabelTableRowForRead** (section [2.2.4.33](#)) and **SerializedECMTermLabelTableRowForWrite** (section [3.1.4.40.3.4](#)).

```

<xs:complexType name="SerializedECMTermLabelTableRowBase">
  <xs:attribute name="a33" type="LCID" use="required"/>
  <xs:attribute name="a32" type="xs:string" use="required"/>
  <xs:attribute name="a31" type="xs:boolean" use="optional"/>
</xs:complexType>

```

a33: The **LCID** of the language for which the term label applies.

a32: The text of the term label. This MUST be less than 255 characters in length. This MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

a31: Whether this term label is the default term label for the language. If the element is of type **SerializedECMTermLabelTableRowForRead** (section 2.2.4.33), attribute **a31** MUST be present.

2.2.4.33 SerializedECMTermLabelTableRowForRead

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A **term label** for a **term**.

```
<xs:complexType name="SerializedECMTermLabelTableRowForRead">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermLabelTableRowBase">
      <xs:attribute name="a34" type="InternalIdentifier" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

a34: The **internal identifier** of the term.

2.2.4.34 SerializedECMTermPropertyTableRowBase

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A property of a **term**. This element specifies the base attributes shared by both **SerializedECMTermPropertyTableRowForRead** (section 2.2.4.35) and **SerializedECMTermPropertyTableRowForWrite** (section 3.1.4.40.3.6).

```
<xs:complexType name="SerializedECMTermPropertyTableRowBase">
  <xs:attribute name="a37" type="xs:string" use="required"/>
  <xs:attribute name="a38" type="xs:string" use="optional"/>
</xs:complexType>
```

a37: The name of the property. This MUST be less than 255 characters in length. This MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

a38: The value of the property. This MUST be less than 255 characters in length. This MUST NOT contain tab or line break. If the element is of type **SerializedECMTermPropertyTableRowForRead** (section 2.2.4.35), attribute **a38** MUST be present.

2.2.4.35 SerializedECMTermPropertyTableRowForRead

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A property of a **term**.

```

<xs:complexType name="SerializedECMTermPropertyTableRowForRead">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermPropertyTableRowBase">
      <xs:attribute name="a34" type="InternalIdentifier" use="required"/>
      <xs:attribute name="a24" type="InternalIdentifier" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

a34: The **internal identifier** of the term.

a24: The internal identifier of a **term set** of which the term is a member.

2.2.4.36 SerializedECMTermSetMembershipTableRowBase

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Information about a **term set** of which a **term** is a member. This element specifies the base attributes shared by both **SerializedECMTermSetMembershipTableRowForRead** (section [2.2.4.37](#)) and **SerializedECMTermSetMembershipTableRowForWrite** (section [3.1.4.40.3.7](#)).

```

<xs:complexType name="SerializedECMTermSetMembershipTableRowBase">
  <xs:attribute name="a24" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a25" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a17" type="xs:boolean" use="optional"/>
  <xs:attribute name="a26" type="xs:boolean" use="optional"/>
  <xs:attribute name="a67" type="xs:string" use="optional"/>
  <xs:attribute name="a74" type="InternalIdentifier" use="optional"/>
</xs:complexType>

```

a24: The **internal identifier** of the term set.

a25: The internal identifier of the parent term. If the term is a root term, this MUST be zero.

a17: Whether a term set is visible to users that are not administrators.

a26: Whether the term is a **source term**.

a67: A list of identifiers for terms separated by a colon (:), which specify a fixed order in which the terms that are **children** appear.

a74: The internal identifier of the source term set that this term is pinned to. If the term is not pinned to any term set, this MUST be NULL. [<6>](#)

2.2.4.37 SerializedECMTermSetMembershipTableRowForRead

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Information about a **term set** of which a **term** is a member.

```

<xs:complexType name="SerializedECMTermSetMembershipTableRowForRead">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermSetMembershipTableRowBase">
      <xs:attribute name="a34" type="InternalIdentifier" use="required"/>
      <xs:attribute name="a39" type="xs:string" use="required"/>
      <xs:attribute name="a40" type="xs:string" use="optional"/>
      <xs:attribute name="a71" type="xs:string" use="optional"/>
      <xs:attribute name="a43" type="ser:guid" use="optional"/>
      <xs:attribute name="a42" type="xs:string" use="optional"/>
      <xs:attribute name="a41" type="ser:guid" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

        <xs:attribute name="a15" type="TermSetType" use="optional"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

```

a34: The **internal identifier** of the term.

a39: The hierarchical path of the term in identifiers. This value is composed of values separated by a backslash (\). Each value is a level of the hierarchy and consists of an internal identifier of a term. The first value is for the root term in the hierarchy, and the last value is for the term. This MUST be less than 884 characters in length.

a40: The hierarchical path of the term in labels. This value is composed of values separated by a semicolon (;). Each value is a level of the hierarchy and is composed of a **term label** of a term. The default label of each term is used in the default language of the **term store**. The first value is for the root term in the hierarchy, and the last value is for the term. If the term is a root term, then this value MUST be empty.

a71: The full path of the term. This value is composed of identifiers separated by the vertical bar (|). The first identifier is the identifier of the **term set group**, followed by the identifier of the term set, followed by the identifiers of each term in the hierarchy, that is, first value is for the root term, and the last value is for the term.

a43: The identifier of the parent term. If the term is a root term, this MUST be NULL.

a42: The list of locale-specific term set names of the term set for the term. This value is composed of inner values separated by a semicolon (;). Each inner value defines a locale-specific term set name and is composed of an **LCID** followed by a vertical bar (|), followed by a term set name. The term set name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

The term set name MUST be less than 255 characters.

a41: The identifier of the term set for the term.

a15: The type of term set for the term.

2.2.4.38 SerializedECMTermSetTableRow

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A **term set**.

```

<xs:complexType name="SerializedECMTermSetTableRow">
  <xs:attribute name="a6" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a0" type="ser:guid" use="required"/>
  <xs:attribute name="a7" type="xs:dateTime" use="optional"/>

```

```

<xs:attribute name="a8" type="xs:dateTime" use="optional"/>
<xs:attribute name="a9" type="ser:guid" use="optional"/>
<xs:attribute name="a14" type="xs:string" use="optional"/>
<xs:attribute name="a12" type="xs:string" use="optional"/>
<xs:attribute name="a11" type="xs:string" use="optional"/>
<xs:attribute name="a15" type="TermSetType" use="optional"/>
<xs:attribute name="a16" type="xs:boolean" use="optional"/>
<xs:attribute name="a17" type="xs:boolean" use="optional"/>
<xs:attribute name="a18" type="xs:string" use="optional"/>
<xs:attribute name="a68" type="xs:string" use="optional"/>
<xs:attribute name="a1" type="InternalIdentifier" use="optional"/>
<xs:attribute name="a67" type="xs:string" use="optional"/>
<xs:attribute name="a10" type="InternalIdentifier" use="optional"/>
<xs:attribute name="a5" type="CommandAction" use="optional"/>
</xs:complexType>

```

a6: The **internal identifier** of the term set.

a0: The identifier of the **term store partition** to which the term set belongs.

a7: The **UTC** time when the term set was created.

a8: The UTC time of the last modification to the term set object.

a9: The identifier of the term set.

a14: The name of the owner of the term set. This MUST be less than 255 characters in length.

a12: The list of locale-specific term set names. This value is composed of inner values separated by a semicolon (;). Each inner value defines a locale-specific term set name and is composed of an **LCID** followed by a vertical bar (|), followed by a term set name. The term set name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

The term set name MUST be less than 255 characters in length.

a11: The description of the term set. This MUST be less than 1000 characters in length.

a15: The type of the term set.

a16: Whether a term set allows users without explicit permissions to add **terms** to the term set.

a17: Whether a term set is visible to users that are not administrators.

a18: A list of users that have an interest in the term set. Each user is separated by a semicolon (;). This MUST be less than 1000 characters in length.

a68: The account to be contacted if a user wants to request the addition of a term to the term set if the **a16** is "false". This MUST be less than 320 characters in length.

a1: The internal identifier of the **term set group** to which this term set belongs.

a67: A list of identifiers for terms separated by a colon (:), which specifies a fixed order in which the terms that are **children** appear.

a10: The internal identifier of the term set from which the term set was copied. If the value of **a5** is 4 (**Copy**), **a10** MUST be present; otherwise, **a10** MUST be absent.

a5: The type of write operation, which MUST be a value from the **CommandAction** enumeration (section [2.2.5.2](#)). This attribute MUST be present when the parent element is a **WriteRoot** (section [3.1.4.40.3.1](#)); otherwise, it MUST NOT be present. The value MUST NOT be 5 (**Merge**).

If the value is 2 (**Delete**), the **a7**, **a14**, **a12**, **a11**, **a15**, **a16**, **a17**, **a18**, **a68**, **a1** and **a10** attributes MUST be absent.

If **a5** is absent, the following attributes MUST be present: **a0**, **a1**, **a6**, **a7**, **a8**, **a9**, **a11**, **a12**, **a14**, **a15**, **a16**, **a17**, **a18**, **a68**, and the **a10** attribute MUST be absent.

2.2.4.39 SerializedECMTermTableRowForRead

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A **term** returned with the results in the containing element. The following attributes MUST be present: **a0**, **a6**, **a7**, **a8**, **a9**, **a14**, **a19**, **a20**, **a21**, **a22**.

```
<xs:complexType name="SerializedECMTermTableRowForRead">
  <xs:attribute name="a6" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a0" type="ser:guid" use="required"/>
  <xs:attribute name="a7" type="xs:dateTime" use="optional"/>
  <xs:attribute name="a8" type="xs:dateTime" use="optional"/>
  <xs:attribute name="a9" type="ser:guid" use="optional"/>
  <xs:attribute name="a14" type="xs:string" use="optional"/>
  <xs:attribute name="a19" type="xs:dateTime" use="optional"/>
  <xs:attribute name="a20" type="xs:int" use="optional"/>
  <xs:attribute name="a21" type="xs:boolean" use="optional"/>
  <xs:attribute name="a22" type="xs:boolean" use="optional"/>
</xs:complexType>
```

a6: The **internal identifier** of the term.

a0: The identifier of the **term store partition** to which the term belongs.

a7: The **UTC** time when the term was created.

a8: The UTC time of the last modification of the term object.

a9: The identifier of the term.

a14: The name of the owner of the term. This MUST be less than 255 characters in length.

a19: Reserved. The value MUST be ignored

a20: Reserved. The value MUST be zero.

a21: Whether the term has been deprecated.

a22: Whether the term has been deleted.

2.2.4.40 ServiceSettings

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

The settings for a **term store partition**.

```
<xs:complexType name="ServiceSettings">
  <xs:attribute name="HubUri" type="xs:string" use="required"/>
  <xs:attribute name="RptOn" type="xs:boolean" use="required"/>
  <xs:attribute name="TSId" type="ser:guid" use="required"/>
  <xs:attribute name="CacheSec" type="xs:int" use="optional"/>
  <xs:attribute name="MaxChan" type="xs:int" use="optional"/>
</xs:complexType>
```

HubUri: URL of the content type publication hub. MUST be empty if none exists.

RptOn: Whether errors during content type publication are reported to the administrator.

TSId: The identifier of the term store.

CacheSec: The interval in seconds that a protocol client is expected to wait before asking the protocol server for changes. If specified, this value MUST be 1 or greater.

MaxChan: The maximum number of connections that a protocol client is expected to have open to the protocol server. If specified, this value MUST be 0 or greater.

2.2.4.41 ServiceSettingsSettingsXmlDoc

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

The settings for a **term store partition**.

```
<xs:complexType name="ServiceSettingsSettingsXmlDoc">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="MetadataSettings" type="ServiceSettings"/>
  </xs:sequence>
</xs:complexType>
```

MetadataSettings: Settings.

2.2.4.42 WorkflowData

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

This type specifies one or more **workflow associations** for a **content type**.

```
<xs:complexType name="WorkflowData">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="WorkflowAssociations">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="unbounded" name="WorkflowAssociation">
            <xs:complexType>
              <xs:sequence>
                <xs:element minOccurs="1" maxOccurs="1" name="object">
                  <xs:complexType>
                    <xs:sequence>
                      <xs:choice minOccurs="1" maxOccurs="1">
                        <xs:element minOccurs="1" maxOccurs="1" name="sFld">
                          <xs:complexType mixed="true">

```

```

        <xs:sequence minOccurs="0" maxOccurs="1">
          <xs:element minOccurs="23" maxOccurs="23" name="sFld">
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="xs:string">
                  <xs:attribute name="type" type="xs:string"
use="required"/>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
        <xs:attribute name="type" type="xs:string" use="required"/>
        <xs:attribute name="name" type="xs:string" use="required"/>
      </xs:complexType>
    </xs:element>
    <xs:element minOccurs="3" maxOccurs="3" name="fld">
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:string">
            <xs:attribute name="type" type="xs:string" use="required"/>
            <xs:attribute name="name" type="xs:string" use="required"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
  </xs:choice>
</xs:sequence>
<xs:attribute name="type" type="xs:string" use="required"/>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

WorkflowAssociations: A list of workflow associations for a content type.

WorkflowAssociations.WorkflowAssociation: A workflow association.

WorkflowAssociations.WorkflowAssociation.object: A workflow association.

WorkflowAssociations.WorkflowAssociation.object.sFld: A field value of the workflow association. There MUST be the following:

- An **sFld** with type "Boolean[]", name "m_updatedProp", and no value.
- An **sFld** with type "String", name "m_strName", and the value of the workflow association name.
- An **sFld** with type "String", name "m_strDescription", and the value of the workflow association description.
- An **sFld** with type "Int32", name "m_autoCleanupDays", and the value of the workflow association auto clean up days.
- An **sFld** with type "Guid", name "m_id", and the value of the workflow association identifier.
- An **sFld** with type "Guid", name "m_baseId", and the value of the **workflow template** identifier.
- An **sFld** with type "Guid", name "m_parentId", and the value of the identifier of the parent association in the parent content type of this association's content type.

- An **sFld** with type "String", name "m_strContentTypeId", and the value of the **content type identifier**.
- An **sFld** with type "Guid", name "m_taskListId", and the value of the task list identifier.
- An **sFld** with type "Guid", name "m_historyListId", and the value of the history list identifier.
- An **sFld** with type "String", name "m_strTaskListTitle", and the value of the task list title.
- An **sFld** with type "String", name "strHistoryListTitle", and the value of the history list title.
- An **sFld** with type "DateTime", name "m_created", and the value of the created time.
- An **sFld** with type "DateTime", name "m_modified", and the value of the modified time.
- An **sFld** with type "String", name "m_associationData", and the value of the association data.
- An **sFld** with type "Int32", name "m_author", and the value of the author identifier.

"m_updatedProp" MUST NOT contain a value, and MUST contain 23 **sFld** sub elements. Other **sFld** elements MUST NOT contain any subelements.

WorkflowAssociations.WorkflowAssociation.object.sFld.sFld: A field value of the "m_updatedProp" element.

- The type attribute MUST be "Boolean".
 - The value of the element MUST be "true" or "false".
- There MUST be 23 of this type for "m_updatedProp". Each one specifies whether a specific attribute of the workflow association has been changed.
- The first, second, and third MUST have a value of "false".
 - The fourth is for the name.
 - The fifth is for the description.
 - The sixth is for the status field name.
 - The seventh and eighth MUST have a value of "false".
 - The ninth is for the list identifier.
 - The tenth is for the content type identifier.
 - The eleventh MUST have a value of "false".
 - The twelfth is for the task list identifier.
 - The thirteenth is for the history list identifier.
 - The fourteenth is for the task list title.
 - The fifteenth is for the history list title.
 - The sixteenth, seventeenth, and eighteenth MUST have a value of "false".
 - The nineteenth is for the **PermissionsManual** (the WSS Rights Mask, as specified in [\[MS-WSSFO2\]](#) section 2.2.2.14, required to manually start any **workflows** created from the workflow association) of the workflow association.
 - The twentieth MUST have a value of "false".

- The twenty-first is for **AutoCleanupDays** (the number of days after which finished workflows created from the workflow association will be automatically deleted) of the workflow association.
- The twenty-second is for **AssociationData** (customized settings for this workflow association) of the workflow association.
- The twenty-third is for configurations of the workflow association.

WorkflowAssociations.WorkflowAssociation.object.sFld.sFld.type: Reserved. MUST be "Boolean".

WorkflowAssociations.WorkflowAssociation.object.sFld.type: The type of an attribute.

WorkflowAssociations.WorkflowAssociation.object.sFld.name: The name of an attribute.

WorkflowAssociations.WorkflowAssociation.object.fld: An attribute of the workflow association. There MUST be:

- An **fld** with type "Microsoft.SharePoint.SPBasePermissions, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce111e9429c", name "m_bpermManual", and the value of the workflow association's **PermissionsManual** property.
- An **fld** with type "null", name "m_strStatusFieldName", and the value of the status field name for the workflow association.
- An **fld** with type "Microsoft.SharePoint.Workflow.SPWorkflowAssociationCollection+Configuration, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce111e9429c", name "m_configuration", and the value of the workflow association's configurations.

WorkflowAssociations.WorkflowAssociation.object.fld.type: The type of the attribute.

WorkflowAssociations.WorkflowAssociation.object.fld.name: The name of the attribute.

WorkflowAssociations.WorkflowAssociation.object.type: The assembly qualified name of the class of the workflow association code.

2.2.4.43 ChangeDataForUpdateTerm

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for a **term** is being updated. <7>

```
<xs:complexType name="ChangeDataForUpdateTerm">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="E" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Data: Root element.

Data.E: Details of the update. It is composed of a sequence of strings separated by pipe (|). The string MUST represent one of the following:

- The languages in which **term labels** have been changed. In this case, the string starts with "L", followed by **LCIDs** for those languages, separated by a semicolon (;).

- The languages in which term descriptions have been changed. In this case, the string starts with "D", followed by LCIDs for those languages, separated by a semicolon (;).
- The names of custom properties that are shared among reused instances of this term and have been changed for this term. In this case, the string starts with "P", followed by custom property names, separated by a semicolon (;).
- The names of custom properties that are specific to the term's **term set** and have been changed for this term. In this case, the string starts with "LP", followed by custom property names, separated by a semicolon (;).

2.2.4.44 SerializedECMChangeLogTableTimeOnlyRow

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Specifies a timestamp.

```
<xs:complexType name="SerializedECMChangeLogTableTimeOnlyRow">
  <xs:attribute name="a54" type="xs:dateTime" use="optional"/>
</xs:complexType>
```

a54: The **UTC** time when the change occurred.

2.2.4.45 GetSessionDataRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Specifies session-related data for the specified **term store partition**.

```
<xs:complexType name="GetSessionDataRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="L" type="SerializedECMLanguageTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element name="GIds" type="SerializedECMGroupIdsTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element name="P" type="SerializedECMPermissionTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="0" maxOccurs="1" name="SGId" type="SystemGroupIdIndicator"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="0" maxOccurs="1" name="KTSId"
            type="KeywordTermSetIdIndicator"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="0" maxOccurs="1" name="OTSID"
            type="OrphanedTermSetIdIndicator"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element minOccurs="1" maxOccurs="1" name="CL"
            type="SerializedECMChangeLogTableTimeOnlyRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="partition"
            type="NewPartitionIndicator"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Root: Root element.

Root.L: Data for a language in the specified term store partition.

Root.NextResult: Separates the preceding set of term store objects of one type from the next set of a different type.

Root.GIDs: **Internal identifier** for a **term set group** in the specified term store partition.

Root.P: Data for term store specific permission in the specified term store partition.

Root.SGId: Identifier for the system term set group in the specified term store partition.

Root.KTSId: Identifier for the keyword term set in the specified term store partition.

Root.OTSTId: Identifier for the **orphaned terms term set** in the specified term store partition.

Root.CL: The timestamp for the latest change that has happened in this term store partition.

Root.partition: Data that states if this was the first time that a partition was used. [<8>](#)

2.2.4.46 KeywordTermSetIdIndicator

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Specifies identifier for the keyword term set in a **term store partition**.

```
<xs:complexType name="KeywordTermSetIdIndicator">
  <xs:attribute name="a9" type="ser:guid" use="required"/>
</xs:complexType>
```

a9: Identifier of the **term set**.

2.2.4.47 NewPartitionIndicator

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

This is used to indicate whether this is the first time that a given **partition** has been used. [<9>](#) The partition in question is defined by the **rawPartitionID** of the **GetSessionData** request.

```
<xs:complexType name="NewPartitionIndicator">
  <xs:attribute name="new" type="xs:boolean" use="required"/>
</xs:complexType>
```

new: If this is the first time that a partition was accessed, this MUST be true. Otherwise, it MUST be false.

2.2.4.48 OrphanedTermSetIdIndicator

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Specifies identifier for the **orphaned terms term set** in a **term store partition**.

```
<xs:complexType name="OrphanedTermSetIdIndicator">
  <xs:attribute name="a9" type="ser:guid" use="required"/>
</xs:complexType>
```

a9: Identifier of the term set.

2.2.4.49 SerializedECMGroupIdsTableRow

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Specifies **internal identifier** for a **term set group** in a **term store partition**.

```
<xs:complexType name="SerializedECMGroupIdsTableRow">
  <xs:attribute name="a6" type="InternalIdentifier" use="required"/>
</xs:complexType>
```

a6: Internal identifier of the term set group.

2.2.4.50 SystemGroupIdIndicator

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Specifies identifier for the system **term set group** in a **term store partition**.

```
<xs:complexType name="SystemGroupIdIndicator">
  <xs:attribute name="a9" type="ser:guid" use="required"/>
</xs:complexType>
```

a9: Identifier of the term set group.

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
ChangeDataForAddOrDeleteLanguage	Change data for adding or deleting a language to or from a term store .
ChangedItemType	Specifies type of term store object.
ChangedOperationType	Specifies type of write operation.
CommandAction	The type of write operation to perform for a Write transaction (section 3.1.4.40).
CommandActionBasic	The type of write operation to perform for a Write transaction (section 3.1.4.40).
ContentTypeId	A content type identifier .
GroupType	The type of term set group .
guid	A GUID .
InternalIdentifier	An internal identifier for a term store object.
LCID	An LCID .
Rights	Permissions bitmask for a user.
StreamBody	A base64 encoded stream of data.
StringMatchOption	The type of search to perform.

Simple Type	Description
TermSetType	The type of term set .
UserName	The name of a user making changes to the term store.

2.2.5.1 ChangeDataForAddOrDeleteLanguage

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Change data for adding or deleting a language to or from a **term store**.

```
<xs:simpleType name="ChangeDataForAddOrDeleteLanguage">
  <xs:restriction base="LCID"/>
</xs:simpleType>
```

2.2.5.2 CommandAction

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

The type of write operation to perform for a **Write** transaction (section [3.1.4.40](#)).

```
<xs:simpleType name="CommandAction">
  <xs:restriction base="xs:int">
    <xs:enumeration value="0"/>
    <xs:enumeration value="1"/>
    <xs:enumeration value="2"/>
    <xs:enumeration value="3"/>
    <xs:enumeration value="4"/>
    <xs:enumeration value="5"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **CommandAction**.

Value	Meaning
0	An add operation.
1	An edit operation.
2	A delete operation.
3	A move operation.
4	A copy operation.
5	A merge operation.

2.2.5.3 CommandActionBasic

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

The type of write operation to perform for a **Write** transaction (section [3.1.4.40](#)).

```

<xs:simpleType name="CommandActionBasic">
  <xs:restriction base="CommandAction">
    <xs:enumeration value="0"/>
    <xs:enumeration value="1"/>
    <xs:enumeration value="2"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for **CommandActionBasic**.

Value	Meaning
0	An add operation.
1	An edit operation.
2	A delete operation.

2.2.5.4 ContentTypeId

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A **content type identifier**.

```

<xs:simpleType name="ContentTypeId">
  <xs:restriction base="xs:string">
    <xs:pattern value="0x([0-9A-Fa-f] [1-9A-Fa-f] | [1-9A-Fa-f] [0-9A-Fa-f] | 00[0-9A-Fa-f]
]{32}) *"/>
    <xs:minLength value="2"/>
    <xs:maxLength value="1026"/>
  </xs:restriction>
</xs:simpleType>

```

2.2.5.5 GroupType

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

The type of **term set group**.

```

<xs:simpleType name="GroupType">
  <xs:restriction base="xs:int">
    <xs:enumeration value="0"/>
    <xs:enumeration value="1"/>
    <xs:enumeration value="2"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for **GroupType**.

Value	Meaning
0	A regular group.
1	A system group.
2	A site collection group.

2.2.5.6 guid

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

A **GUID**.

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

2.2.5.7 InternalIdentifier

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

An **internal identifier** for a **term store** object.

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

2.2.5.8 LCID

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

An **LCID**.

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

2.2.5.9 Rights

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Permissions bitmask for a user.

```
<xs:simpleType name="Rights">
  <xs:restriction base="xs:unsignedLong">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="273"/>
  </xs:restriction>
</xs:simpleType>
```

The value **MUST** be a combination of one or more of the values defined in the following table.

Value	Meaning
0x000	No Permissions.
0x001	Edit term.

Value	Meaning
0x002	Edit term set.
0x004	Edit group.
0x008	Add 'edit term set' permissions.
0x010	Manage term store.
0x020	Add 'manage term store' permissions.
0x040	Contributor.
0x080	Group manager.
0x100	Term store administrator.
0xFFFF	All permissions.

2.2.5.10 StreamBody

Namespace: http://schemas.microsoft.com/Message

A **base64** encoded stream of data.

```
<xs:simpleType name="StreamBody">
  <xs:restriction base="xs:base64Binary"/>
</xs:simpleType>
```

2.2.5.11 StringMatchOption

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy

The type of search to perform.

```
<xs:simpleType name="StringMatchOption">
  <xs:restriction base="xs:string">
    <xs:enumeration value="StartsWith"/>
    <xs:enumeration value="ExactMatch"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **StringMatchOption**.

Value	Meaning
StartsWith	Match a value if it begins with the search string.
ExactMatch	Match a value if it matches the input search string.

2.2.5.12 TermSetType

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

The type of **term set**.

```
<xs:simpleType name="TermSetType">
  <xs:restriction base="xs:int">
    <xs:enumeration value="0"/>
    <xs:enumeration value="1"/>
    <xs:enumeration value="2"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **TermSetType**.

Value	Meaning
0	A regular term set.
1	A term set of keywords.
2	A term set of orphaned terms .

2.2.5.13 Username

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

The name of a user making changes to the **term store**.

```
<xs:simpleType name="UserName">
  <xs:restriction base="xs:string">
    <xs:length value="255"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.5.14 ChangedItemType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy

Specifies type of **term store** object.

```
<xs:simpleType name="ChangedItemType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown"/>
    <xs:enumeration value="Term"/>
    <xs:enumeration value="TermSet"/>
    <xs:enumeration value="Group"/>
    <xs:enumeration value="TermStore"/>
    <xs:enumeration value="Site"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **ChangedItemType**.

Value	Meaning
Unknown	This value is defined for diagnostic purposes only. It is not used by the protocol.
Term	For changes to a term and its properties such as which term set it is a member of.

Value	Meaning
TermSet	For changes to a term set and its properties.
Group	For changes to a term set group and its properties.
TermStore	For changes to a term store and its properties such as languages and permissions.
Site	For changes to a list of terms used in a site collection .

2.2.5.15 ChangedOperationType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy

Specifies type of write operation.

```
<xs:simpleType name="ChangedOperationType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown"/>
    <xs:enumeration value="Add"/>
    <xs:enumeration value="Edit"/>
    <xs:enumeration value="Delete"/>
    <xs:enumeration value="Move"/>
    <xs:enumeration value="Copy"/>
    <xs:enumeration value="PathChange"/>
    <xs:enumeration value="Merge"/>
    <xs:enumeration value="Import"/>
    <xs:enumeration value="Restore"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **ChangedOperationType**.

Value	Meaning
Unknown	This value is defined for diagnostic purposes only. It is not used by the protocol.
Add	For changes associated with adding an item. Applicable to ChangedItemType of 1 (Term), 2 (TermSet), 3 (Group), 4 (TermStore) and 5 (Site).
Edit	For changes associated with editing an item. Applicable to ChangedItemType of 1 (Term), 2 (TermSet), 3 (Group) and 4 (TermStore).
Delete	For changes associated with deleting an item. Applicable to ChangedItemType of 1 (Term), 2 (TermSet), 3 (Group) and 4 (TermStore).
Move	For changes associated with moving an item. Applicable to ChangedItemType of 1 (Term), 2 (TermSet).
Copy	For changes associated with copying an item. Applicable to ChangedItemType of 1 (Term) and 2 (TermSet).
PathChange	For changes associated with changing default term label . Applicable to ChangedItemType of 1 (Term).
Merge	For changes associated with merging two terms . Applicable to ChangedItemType of 1 (Term).
Import	For changes associated with importing term store partition data. Applicable to ChangedItemType of 4 (TermStore).

Value	Meaning
Restore	For changes associated with restoring term store partition data. Applicable to ChangedItemType of 4 (TermStore). These changes can be from the restoration of the service application of the term store or from a full farm restore.

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.

Preliminary

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.

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.

3.1 Server Details

3.1.1 Abstract Data Model

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

The protocol server (or "**service application**") maintains multiple **term stores**.

Each term store has settings that control whether it is partitioned or unpartitioned. That is, the data maintained by the protocol server can either be stored for all callers or partitioned by a **partition identifier** (unpartitioned term stores are equivalent to a single **partition**).

One or more **site collections** will map to a single term store partition if the site collections are all subscribed to the same **site subscription** and their **Web applications** are associated with the term store. Additionally, the Web application of a site collection can be associated with multiple term stores, in which case a site collection can be mapped to zero or more term store partitions.

Each term store partition maintains settings for:

- Language(s), including a default language.
- Permissions.
- The location of the content type publication hub, that is, the **URL** of a site collection that contains **content types** that are shared for usage.
- **Content type packages** that contain the definitions of those content types.
- A log for issues encountered during content type publication, and a setting controlling whether errors are logged or not.

Each term store partition maintains **term sets** and **terms**. Term sets contain a hierarchy of terms (potentially re-using individual terms in multiple term sets, for example, "office" being reused as a product name and a location); that is, the term set has root terms (terms without parents), and each term has zero or more terms that are **children**.

Each term set and each term has values for one or more of the languages. For example, a term has a **term label** for each language.

For terms that appear in multiple term sets, only one instance will be the **source term**, that is, the term that is used for permission checking when editing.

Each term store partition maintains groups of related term sets, such as "Cities in Washington", "Cities in Arizona", and so on. Each **term set group** has permission settings controlling access.

Each term store partition has a system term set group that contains two system term sets, one for keyword metadata and one for **orphaned terms**. Orphaned terms are terms whose previous source term was deleted, and whose new source term has not yet been designated.

Each term store partition has a log of changes made to term store objects.

Each term store partition maintains a record of which terms are used and the site collections in which they have been used.

3.1.2 Timers

None.

3.1.3 Initialization

Before any other operation can be called on a **term set**, the **GetSessionData** operation MUST be called.

3.1.4 Message Processing Events and Sequencing Rules

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

WSDL Operation	Description
ClearApplicationLog	This operation is called to remove log entries from the content type publication log for a term store partition .
ClearPartitionData	This operation is called to delete all data in a term store partition.
DeleteServiceSettings	This operation is called to reset the settings for a term store partition.
DownloadPackage	This operation is called to download the specified content type package from the specified term store partition.
ExportPartitionData	This operation is called to export the main data objects (terms, term sets, term set groups , and so on) from a term store partition. The change log is not exported.
ExportPartitionData2	This operation is called to export the main data objects (terms, term sets, term set groups, and so on) from a term store partition. <10> The change log is not exported.
GetApplicationLog	This operation is called to retrieve the content type publication log.
GetChangedTermSets	Returns all term sets that have changed since a specific time. <11>
GetChanges	This operation is called to retrieve change log entries in the specified term store partition or all term store partitions occurring

WSDL Operation	Description
	after a specified time.
GetChanges2	This operation is called to retrieve change log entries in the specified term store partition or all term store partitions occurring after a specified time.<12>
GetChangesForFullListSync	This operation is called to retrieve change log entries associated with term store import or restore operation occurring after a specified time.
GetChangesForListSync	This operation is called to retrieve change log entries associated with terms used in a specified Web application occurring after a specified time.
GetChangesOverInterval	This operation is called to retrieve change log entries in the specified term store partition occurring the span of the time specified before now.
GetChangeTime	This operation is called to retrieve the timestamp of the last time an object within a term store partition, term set group or term set has changed.
GetDescendentTerms	This operation is called to retrieve the descendant terms of a specified term.
GetGroupByGuid	The GetGroupByGuid operation retrieves the properties of a term set group from the specified term store partition.
GetGroups	This operation is called to retrieve the properties of the specified term set groups from the specified term store partition.
GetIsServiceApplicationPartitioned	This operation is called to find out if the service application contains partitioned term stores.
GetServiceApplicationName	This operation is called to retrieve the name of the service application.
GetServiceApplicationSettings	This operation is called to retrieve the settings of the service application. Those settings are applied to all term store partitions on this service application.
GetServiceSettings	This operation is called to retrieve the settings of a term store partition.
GetSessionData	This operation is called to retrieve session related data for the specified term store partition.
GetSessionDataWithTermStoreId	This operation is called to retrieve session related data for the specified term store partition and also to retrieve the identifier of the term store partition.<13>
GetSitesContainingTerms	This operation is reserved and MUST NOT be called.
GetSortedChildTermIds	This operation is called to retrieve the terms that are children of a term.
GetTerm	This operation is called to retrieve details about a term.
GetTerms	This operation is called to get details about multiple terms.
GetTermSets	This operation is called to get details about multiple of term sets.
GetTermSetsByLabel	This operation is called to get details about term sets that contain

WSDL Operation	Description
	terms with the specified term labels .
GetTermSetsInternal	This operation is called to get details about multiple of term sets.
GetTermSetWithAllTerms	This operation is called to retrieve the terms in a term set.
GetTermSetWithAllTermsLimitedMembership	This operation is called to retrieve the terms in a term set. <14>
GetTermsInternal	This operation is called to retrieve the specified terms.
GetUpdateInformation	This operation is called to get information about content type package changes that happened after the specified time.
ImportPartitionData	This operation is called to import data into a term store partition.
ImportPartitionData2	This operation is called to import data into a term store partition. <15>
InitiateCacheFlush	This operation is called to indicate that the protocol client needs to flush any caches that it is maintaining.
PublishPackage	This operation is called to publish a content type package to the specified term store partition.
RemoveUsedTermSet	This operation is called to remove term usage information for terms belonging to the specified term set.
SearchAllTermSetsByProperty	This operation is called to find term set properties that have properties that match the search criteria across all the tenants. <16>
SearchTermByLabel	This operation is called to find terms that have term labels that match a search criteria.
SearchTermByProperty	This operation is called to find terms that have properties that match a search criteria.
SearchTermSetByName	This operation is called to find term sets by name.
SearchTermSetsByProperty	This operation is called to find term sets that have properties that match the search criteria. <17>
SetServiceSettings	This operation is called to set a setting for a term store partition.
UnpublishPackage	This operation is called to unpublish a content type package from the specified term store partition.
UploadStatus	This operation is called to add an entry to the content type publication log.
Write	This operation is called to perform write operations against a term store partition.
WriteClearUsedTerms	This operation is called to remove the term usage information for the specified site collection .
WriteUsedTerm	Adds term usage information indicating that the specified term has been used in the specified site collection.
WriteUsedTerms	Adds term usage information indicating that the specified terms have been used in the specified site collection.

3.1.4.1 ClearApplicationLog

This operation is called to remove log entries from the content type publication log for a **term store partition**.

```
<wsdl:operation name="ClearApplicationLog">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearApplicationLog"
    message="tns:IMetadataWebServiceApplication_ClearApplicationLog_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearApplicationLogResponse"
    message="tns:IMetadataWebServiceApplication_ClearApplicationLog_OutputMessage"/>
</wsdl:operation>
```

The protocol server removes log entries from the content type publication log entries for the specified term store partition that occurred on or before the specified time.

3.1.4.1.1 Messages

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

3.1.4.1.1.1 IMetadataWebServiceApplication_ClearApplicationLog_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearApplicationLog
```

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

3.1.4.1.1.2 IMetadataWebServiceApplication_ClearApplicationLog_OutputMessage

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

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

3.1.4.1.2 Elements

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

3.1.4.1.2.1 ClearApplicationLog

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

```
<xs:element name="ClearApplicationLog">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q77="http://schemas.microsoft.com/2003/10/Serialization/" type="q77:guid"/>
      <xs:element minOccurs="1" name="endTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```


rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

endTime: A **UTC** time. Any log entries for the specified **term store partition** that occurred on or before this time get removed from the content type publication log.

3.1.4.1.2.2 ClearApplicationLogResponse

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

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

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 ClearPartitionData

This operation is called to delete all data in a **term store partition**.

```
<wsdl:operation name="ClearPartitionData">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearPartitionData"
    message="tns:IMetadataWebServiceApplication ClearPartitionData InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearPartitionDataResponse"
    message="tns:IMetadataWebServiceApplication ClearPartitionData OutputMessage"/>
</wsdl:operation>
```

This operation is called to delete the specified term store partition and all of its data.

3.1.4.2.1 Messages

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

3.1.4.2.1.1 IMetadataWebServiceApplication_ClearPartitionData_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearPartitionData
```

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

3.1.4.2.1.2 IMetadataWebServiceApplication_ClearPartitionData_OutputMessage

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

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

3.1.4.2.2 Elements

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

3.1.4.2.2.1 ClearPartitionData

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

```
<xs:element name="ClearPartitionData">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q84="http://schemas.microsoft.com/2003/10/Serialization/" type="q84:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

3.1.4.2.2.2 ClearPartitionDataResponse

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

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

3.1.4.2.3 Complex Types

None.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 DeleteServiceSettings

This operation is called to reset the settings for a **term store partition**.

```
<wsdl:operation name="DeleteServiceSettings">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DeleteServiceSettings"
    message="tns:IMetadataWebServiceApplication_DeleteServiceSettings_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DeleteServiceSettingsResponse"
    message="tns:IMetadataWebServiceApplication_DeleteServiceSettings_OutputMessage"/>
</wsdl:operation>
```

The protocol server will clear the settings for the specified term store partition. The settings are defined in complex type **ServiceSettings** (section [2.2.4.40](#)).

3.1.4.3.1 Messages

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

3.1.4.3.1.1 IMetadataWebServiceApplication_DeleteServiceSettings_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DeleteServiceSettings
```

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

3.1.4.3.1.2 IMetadataWebServiceApplication_DeleteServiceSettings_OutputMessage

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

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

3.1.4.3.2 Elements

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

3.1.4.3.2.1 DeleteServiceSettings

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

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

```

    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q65="http://schemas.microsoft.com/2003/10/Serialization/" type="q65:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

3.1.4.3.2 DeleteServiceSettingsResponse

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

```

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

```

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 DownloadPackage

This operation is called to download the specified **content type package** from the specified **term store partition**.

```

<wsdl:operation name="DownloadPackage">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DownloadPackage"
    message="tns:IMetadataWebServiceApplication DownloadPackage InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DownloadPackageResponse"
    message="tns:IMetadataWebServiceApplication_DownloadPackage_OutputMessage"/>
</wsdl:operation>

```

If the specified package does not exist, an empty stream is returned. Otherwise, the **DownloadPackageResult** element contains the **base64** encoded contents of the content type package.

3.1.4.4.1 Messages

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

3.1.4.4.1.1 IMetadataWebServiceApplication_DownloadPackage_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DownloadPackage
```

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

3.1.4.4.1.2 IMetadataWebServiceApplication_DownloadPackage_OutputMessage

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

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

3.1.4.4.2 Elements

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

3.1.4.4.2.1 DownloadPackage

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

```
<xs:element name="DownloadPackage">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q70="http://schemas.microsoft.com/2003/10/Serialization/" type="q70:guid"/>
      <xs:element minOccurs="1" name="packageId" nillable="false" type="ContentTypeId"/>
      <xs:element minOccurs="1" name="packageType"
        xmlns:q71="http://schemas.microsoft.com/2003/10/Serialization/" type="q71:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

packageId: The identifier of the **content type**.

packageType: Reserved. The value MUST be " B4AD3A44-D934-4c91-8D1F-463ACEADE443".

3.1.4.4.2.2 DownloadPackageResponse

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

```
<xs:element name="DownloadPackageResponse">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element name="DownloadPackageResult"
      xmlns:q72="http://schemas.microsoft.com/Message" type="q72:StreamBody"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

DownloadPackageResult: The **base64** encoded contents of the **content type package**.

3.1.4.4.3 Complex Types

None.

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 ExportPartitionData

This operation is called to export the main data objects (**terms**, **term sets**, **term set groups**, and so on) from a **term store partition**. The change log is not exported.

```

<wsdl:operation name="ExportPartitionData">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData"
    message="tns:IMetadataWebServiceApplication_ExportPartitionData_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionDataResponse"
    message="tns:IMetadataWebServiceApplication_ExportPartitionData_OutputMessage"/>
</wsdl:operation>

```

If the user does not have implementation-specific rights to store the file at the specified file path, the protocol server MUST send a **SOAP fault** message containing a **System.Exception**. Otherwise, the protocol server exports data from the specified term store partition and saves it in an implementation specific **cabinet (.cab) file** at the specified file path.

3.1.4.5.1 Messages

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

3.1.4.5.1.1 IMetadataWebServiceApplication_ExportPartitionData_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData
```

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

3.1.4.5.1.2 IMetadataWebServiceApplication_ExportPartitionData_OutputMessage

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

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

3.1.4.5.2 Elements

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

3.1.4.5.2.1 ExportPartitionData

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

```
<xs:element name="ExportPartitionData">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q80="http://schemas.microsoft.com/2003/10/Serialization/" type="q80:guid"/>
      <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

filePath: **UNC** path to the file where the **term store partition** data is to be stored.

3.1.4.5.2.2 ExportPartitionDataResponse

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

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

3.1.4.5.3 Complex Types

None.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 GetApplicationLog

This operation is called to retrieve the content type publication log.

```
<wsdl:operation name="GetApplicationLog">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetApplicationLog"
    message="tns:IMetadataWebServiceApplication_GetApplicationLog_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetApplicationLogResponse"
    message="tns:IMetadataWebServiceApplication_GetApplicationLog_OutputMessage"/>
</wsdl:operation>
```

The protocol server returns the oldest 1000 log entries (or all entries if there are fewer than 1000) from the content type publication log entries for the specified **term store partition**.

3.1.4.6.1 Messages

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

3.1.4.6.1.1 IMetadataWebServiceApplication_GetApplicationLog_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetApplicationLog
```

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

3.1.4.6.1.2 IMetadataWebServiceApplication_GetApplicationLog_OutputMessage

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

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

3.1.4.6.2 Elements

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

3.1.4.6.2.1 GetApplicationLog

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

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



```

    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q75="http://schemas.microsoft.com/2003/10/Serialization/" type="q75:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

3.1.4.6.2.2 GetApplicationLogResponse

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

```

<xs:element name="GetApplicationLogResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="GetApplicationLogResult"
        xmlns:q76="http://schemas.microsoft.com/Message" type="q76:StreamBody"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetApplicationLogResult: The contents of the content type publication log, which **MUST** be a **base64** encoded XML document that conforms to the schema of the **GetApplicationLogRoot** complex type (section [2.2.4.12](#)).

3.1.4.6.3 Complex Types

None.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 GetChanges

This operation is called to retrieve change log entries in the specified **term store partition** or all term store partitions occurring after a specified time.

```

<wsdl:operation name="GetChanges">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges"
    message="tns:IMetadataWebServiceApplication_GetChanges_InputMessage"/>

```

```

    <wsdl:output
      wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesResponse" message="tns:IMetadataWebServiceApplication_GetChanges_OutputMessage"/>
  </wsdl:operation>

```

First, the change log entries are filtered to those that occurred after **sinceTime**.

If parameter **rawPartitionId** is not NULL, the change log entries pertain to the specified term store partition are returned. Otherwise, the entries from all term store partitions are returned.

If parameter **termSetId** is not NULL, the entries that pertain to the specified **term set** are returned. Otherwise, if parameter **groupId** is not NULL, the entries that pertain to the specified **term set group** are returned. Otherwise, all are returned.

The entries returned MUST be ordered by the time the change occurred in ascending order. Additionally, if either **changedItemType** or **changedOperationType** are specified and not 0 (Unknown), the entries are filtered to those that apply to the specified type of term store object or type of write operation, respectively.

3.1.4.7.1 Messages

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

3.1.4.7.1.1 IMetadataWebServiceApplication_GetChanges_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges
```

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

3.1.4.7.1.2 IMetadataWebServiceApplication_GetChanges_OutputMessage

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

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

3.1.4.7.2 Elements

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

3.1.4.7.2.1 GetChanges

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

```

<xs:element name="GetChanges">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="rawPartitionId" nillable="true"
        xmlns:q25="http://schemas.microsoft.com/2003/10/Serialization/" type="q25:guid"/>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="groupId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="changedItemType" nillable="true"
        xmlns:q26="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
        type="q26:ChangedItemType"/>
    
```

```

    <xs:element minOccurs="0" name="changedOperationType" nillable="true"
xmlns:q27="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
type="q27:ChangedOperationType"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request.

sinceTime: The date and time value, in **UTC**, after which the changes that occurred are returned.

groupId: **Term set group** identifier.

termSetId: **Term set** identifier.

changedItemType: A filter of the type of **term store** object.

changedOperationType: A filter of the type of write operation.

3.1.4.7.2.2 GetChangesResponse

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

```

<xs:element name="GetChangesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangesResult" nillable="true"
type="GetChangesRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetChangesResult: The change log entries.

3.1.4.7.3 Complex Types

None.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Attribute Groups

None.

3.1.4.8 GetChangesForFullListSync

This operation is called to retrieve change log entries associated with term store import or restore operation occurring after a specified time.

```

<wsdl:operation name="GetChangesForFullListSync">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForFullListSync"
    message="tns:IMetadataWebServiceApplication_GetChangesForFullListSync_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForFullListSyncResponse"
    message="tns:IMetadataWebServiceApplication_GetChangesForFullListSync_OutputMessage"/>
</wsdl:operation>

```

The change log entries are filtered to those that occurred after **sinceTime**.

3.1.4.8.1 Messages

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

3.1.4.8.1.1 IMetadataWebServiceApplication_GetChangesForFullListSync_InputMessage

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

The **SOAP action** value is:

```

http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForFullListSync

```

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

3.1.4.8.1.2 IMetadataWebServiceApplication_GetChangesForFullListSync_OutputMessage

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

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

3.1.4.8.2 Elements

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

3.1.4.8.2.1 GetChangesForFullListSync

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

```

<xs:element name="GetChangesForFullListSync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

sinceTime: The date and time value, in **UTC**, after which the changes that occurred are returned.

3.1.4.8.2.2 GetChangesForFullListSyncResponse

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

```

<xs:element name="GetChangesForFullListSyncResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangesForFullListSyncResult" nillable="true"
type="GetChangesForFullListSyncRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetChangesForFullListSyncResult: The change log entries.

3.1.4.8.3 Complex Types

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

3.1.4.8.3.1 GetChangesForFullListSyncRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A list of change log entries defined as follows.

```

<xs:complexType name="GetChangesForFullListSyncRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="T">
            <xs:complexType>
              <xs:attribute name="a0" type="ser:guid" use="required"/>
              <xs:attribute name="a48" type="ser:guid" use="optional"/>
              <xs:attribute name="a49" type="ser:guid" use="optional"/>
              <xs:attribute name="a50" type="ser:guid" use="optional"/>
              <xs:attribute name="a51" type="InternalIdentifier" use="optional"/>
              <xs:attribute name="a52" type="mst:ChangedItemType" use="required"/>
              <xs:attribute name="a53" type="mst:ChangedOperationType" use="required"/>
              <xs:attribute name="a54" type="xs:dateTime" use="required"/>
              <xs:attribute name="a55" type="xs:string" use="optional"/>
              <xs:attribute name="a56" type="UserName" use="optional"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.T: A change log entry.

Root.T.a0: The **term store partition identifier**.

Root.T.a48: Reserved. The value MUST be NULL.

Root.T.a49: Reserved. The value MUST be NULL.

Root.T.a50: Reserved. The value MUST be NULL.

Root.T.a51: Reserved. The value MUST be NULL.

Root.T.a52: The type of the object, which MUST be a value specified in the list defined in **SerializedECMChangeLogTableRow** (section [2.2.4.22](#)).

Root.T.a53: The type of write operation, which MUST be a value specified in the list defined in **SerializedECMChangeLogTableRow** (section 2.2.4.22).

Root.T.a54: The **UTC** time when the change occurred.

Root.T.a55: The details of the change. If used, it MUST conform to the schema of **ChangeDataForRestoreTermStore** (section 2.2.4.9) type.

Root.T.a56: Reserved. The value MUST be NULL.

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9 GetChangesForListSync

This operation is called to retrieve change log entries associated with **terms** used in a specified **Web application** occurring after a specified time.

```
<wsdl:operation name="GetChangesForListSync">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForListSync"
    message="tns:IMetadataWebServiceApplication_GetChangesForListSync_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForListSyncResponse"
    message="tns:IMetadataWebServiceApplication_GetChangesForListSync_OutputMessage"/>
</wsdl:operation>
```

First, the change log entries are filtered to those that occurred after **sinceTime**.

Then the protocol server uses its record of **site collections** in which a term is used and for each term that is used in a site collection from the specified Web application, the entries that pertain are returned.

The entries MUST be ordered in ascending order by **term store partition identifier**, then in descending numeric order by type of object, then in ascending order by site collection identifier, and finally in ascending order by **term set** identifier.

3.1.4.9.1 Messages

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

3.1.4.9.1.1 IMetadataWebServiceApplication_GetChangesForListSync_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForListSync
```

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

3.1.4.9.1.2 IMetadataWebServiceApplication_GetChangesForListSync_OutputMessage

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

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

3.1.4.9.2 Elements

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

3.1.4.9.2.1 GetChangesForListSync

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

```
<xs:element name="GetChangesForListSync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime"/>
      <xs:element minOccurs="1" name="webAppId"
        xmlns:q24="http://schemas.microsoft.com/2003/10/Serialization/" type="q24:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

sinceTime: The date and time value, in **UTC**, after which the changes that occurred are returned.

webAppId: **Web application** identifier.

3.1.4.9.2.2 GetChangesForListSyncResponse

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

```
<xs:element name="GetChangesForListSyncResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangesForListSyncResult" nillable="true"
        type="GetChangesForListSyncRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChangesForListSyncResult: The change log entries.

3.1.4.9.3 Complex Types

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

3.1.4.9.3.1 GetChangesForListSyncRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A list of change log entries defined as follows.

```
<xs:complexType name="GetChangesForListSyncRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="T">
            <xs:complexType>
              <xs:attribute name="a0" type="ser:guid" use="required"/>
              <xs:attribute name="a60" type="ser:guid" use="required"/>
              <xs:attribute name="a48" type="ser:guid" use="optional"/>
              <xs:attribute name="a49" type="ser:guid" use="optional"/>
              <xs:attribute name="a50" type="ser:guid" use="optional"/>
              <xs:attribute name="a51" type="InternalIdentifier" use="optional"/>
              <xs:attribute name="a52" type="mst:ChangedItemType" use="required"/>
              <xs:attribute name="a53" type="mst:ChangedOperationType" use="required"/>
              <xs:attribute name="a54" type="xs:dateTime" use="required"/>
              <xs:attribute name="a55" type="xs:string" use="optional"/>
              <xs:attribute name="a62" type="xs:string" use="required"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Root: Root element.

Root.T: A change log entry.

Root.T.a0: The **term store partition identifier**.

Root.T.a60: The **site collection** identifier.

Root.T.a48: The **term set group** identifier. The value MUST be NULL if the change is not scoped inside a term set group, such as language change or permissions change.

Root.T.a49: The **term set** identifier. The value MUST be NULL if the change is not scoped inside a term set, such as language change or permissions change.

Root.T.a50: The identifier of the object. The value MUST be NULL if the change is not for a specific object, such as language change or permissions change.

Root.T.a51: The **internal identifier** of the object.

Root.T.a52: The type of the object, which MUST be a value specified in the list defined in **SerializedECMChangeLogTableRow** (section [2.2.4.22](#)).

Root.T.a53: The type of write operation, which MUST be a value specified in the list defined in **SerializedECMChangeLogTableRow** (section [2.2.4.22](#)).

Root.T.a54: The **UTC** time when the change occurred.

Root.T.a55: The details of the change. If used, it MUST conform to the schema of the following types:

- **ChangeDataForAddOrDeleteLanguage** (section [2.2.5.1](#))

- **ChangeDataForSetDefaultLanguage** (section [2.2.4.10](#))
- **ChangeDataForAddTermSetMembership** (section [2.2.4.4](#))
- **ChangeDataForMoveOrUpdateTermSetMembership** (section [2.2.4.8](#))
- **ChangeDataForAddTermSet** (section [2.2.4.3](#))
- **ChangeDataForUpdateTermSet** (section [2.2.4.11](#))
- **ChangeDataForDeleteTerm** (section [2.2.4.6](#))
- **ChangeDataForMergeTerm** (section [2.2.4.7](#))

Root.T.a62: Settings for the term store **partition**, which is an XML encoded string that MUST conform to the schema of the **ServiceSettingsSettingsXmlDoc** complex type (section [2.2.4.41](#)).

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10 GetChangesOverInterval

This operation is called to retrieve change log entries in the specified **term store partition** occurring the span of the time specified before now.

```
<wsdl:operation name="GetChangesOverInterval">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesOverInterval"
    message="tns:IMetadataWebServiceApplication_GetChangesOverInterval_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesOverIntervalResponse"
    message="tns:IMetadataWebServiceApplication_GetChangesOverInterval_OutputMessage"/>
</wsdl:operation>
```

The change log entries for the term store partition are filtered to those that occurred within the last **sinceTimeAgo** time interval.

The entries returned MUST be ordered by the time the change occurred in ascending order.

3.1.4.10.1 Messages

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

3.1.4.10.1.1 IMetadataWebServiceApplication_GetChangesOverInterval_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesOverInterval
```

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

3.1.4.10.1.2 IMetadataWebServiceApplication_GetChangesOverInterval_OutputMessage

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

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

3.1.4.10.2 Elements

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

3.1.4.10.2.1 GetChangesOverInterval

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

```
<xs:element name="GetChangesOverInterval">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q31="http://schemas.microsoft.com/2003/10/Serialization/" type="q31:guid"/>
      <xs:element minOccurs="1" name="sinceTimeAgo"
        xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/" type="q32:duration"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

sinceTimeAgo: The previous time interval during which the changes that occurred are returned.

3.1.4.10.2.2 GetChangesOverIntervalResponse

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

```
<xs:element name="GetChangesOverIntervalResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangesOverIntervalResult" nillable="true"
        type="GetChangesRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChangesOverIntervalResult: The change log entries.

3.1.4.10.3 Complex Types

None.

3.1.4.10.4 Simple Types

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

3.1.4.10.4.1 duration

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

A time interval in days, hours, minutes, and seconds defined as follows.

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

3.1.4.10.5 Attributes

None.

3.1.4.10.6 Groups

None.

3.1.4.10.7 Attribute Groups

None.

3.1.4.11 GetChangeTime

This operation is called to retrieve the timestamp of the last time an object within a **term store partition**, **term set group** or **term set** has changed.

```
<wsdl:operation name="GetChangeTime">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangeTime" message="tns:IMetadataWebServiceApplication_GetChangeTime_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangeTimeResponse" message="tns:IMetadataWebServiceApplication_GetChangeTime_OutputMessage"/>
</wsdl:operation>
```

If the **termSetGuid** parameter is not NULL, the last time an object in the specified term set was changed is returned. Otherwise, if parameter **groupGuid** is not NULL, the last time an object in the specified term set group was changed is returned. Otherwise, the last time anything within the specified term store partition was changed is returned.

3.1.4.11.1 Messages

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

3.1.4.11.1.1 IMetadataWebServiceApplication_GetChangeTime_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangeTime
```

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

3.1.4.11.1.2 IMetadataWebServiceApplication_GetChangeTime_OutputMessage

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

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

3.1.4.11.2 Elements

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

3.1.4.11.2.1 GetChangeTime

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

```
<xs:element name="GetChangeTime">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q33="http://schemas.microsoft.com/2003/10/Serialization/" type="q33:guid"/>
      <xs:element minOccurs="0" name="groupGuid" nillable="true"
        xmlns:q34="http://schemas.microsoft.com/2003/10/Serialization/" type="q34:guid"/>
      <xs:element minOccurs="0" name="termSetGuid" nillable="true"
        xmlns:q35="http://schemas.microsoft.com/2003/10/Serialization/" type="q35:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

groupGuid: **Term set group** identifier.

termSetGuid: **Term set** identifier.

3.1.4.11.2.2 GetChangeTimeResponse

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

```
<xs:element name="GetChangeTimeResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangeTimeResult" nillable="true"
        type="GetChangeTimeRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChangeTimeResult: The time of the most recent modification within the specified **term store partition, term set group** or **term set**.

3.1.4.11.3 Complex Types

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

3.1.4.11.3.1 GetChangeTimeRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A timestamp defined as follows.

```
<xs:complexType name="GetChangeTimeRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="CL"
            type="SerializedECMChangeLogTableTimeOnlyRow"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Root: Root element.

Root.CL: The timestamp.

3.1.4.11.4 Simple Types

None.

3.1.4.11.5 Attributes

None.

3.1.4.11.6 Groups

None.

3.1.4.11.7 Attribute Groups

None.

3.1.4.12 GetDescendentTerms

This operation is called to retrieve the **descendant terms** of a specified term.

```
<wsdl:operation name="GetDescendentTerms">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetDescendentTerms"
    message="tns:IMetadataWebServiceApplication GetDescendentTerms InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetDescendentTermsResponse"
    message="tns:IMetadataWebServiceApplication GetDescendentTerms OutputMessage"/>
</wsdl:operation>
```

If the term is not found in the **term store partition** and **term set**, the response MUST contain an empty root node. Otherwise, the descendant terms are returned, as defined in **GetTermRoot** (section [2.2.4.17](#)).

3.1.4.12.1 Messages

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

3.1.4.12.1.1 IMetadataWebServiceApplication_GetDescendentTerms_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetDescendentTerms
```

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

3.1.4.12.1.2 IMetadataWebServiceApplication_GetDescendentTerms_OutputMessage

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

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

3.1.4.12.2 Elements

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

3.1.4.12.2.1 GetDescendentTerms

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

```
<xs:element name="GetDescendentTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q23="http://schemas.microsoft.com/2003/10/Serialization/" type="q23:guid"/>
      <xs:element minOccurs="1" name="termSetId" type="xs:int"/>
      <xs:element minOccurs="1" name="termId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetId: The **internal identifier** of the **term set**.

termId: The internal identifier of the **term**.

3.1.4.12.2.2 GetDescendentTermsResponse

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

```
<xs:element name="GetDescendentTermsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDescendentTermsResult" nillable="true"
        type="GetTermRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

GetDescendentTermsResult: Details about the descendant **terms**.

3.1.4.12.3 Complex Types

None.

3.1.4.12.4 Simple Types

None.

3.1.4.12.5 Attributes

None.

3.1.4.12.6 Groups

None.

3.1.4.12.7 Attribute Groups

None.

3.1.4.13 GetGroupByGuid

The **GetGroupByGuid** operation retrieves the properties of a **term set group** from the specified **term store partition**.

```
<wsdl:operation name="GetGroupByGuid">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroupByGuid" message="tns:IMetadataWebServiceApplication_GetGroupByGuid_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroupByGuidResponse" message="tns:IMetadataWebServiceApplication_GetGroupByGuid_OutputMessage"/>
</wsdl:operation>
```

If the term store partition does not exist, or if the term set group does not exist in the term store partition, the response MUST contain no **GetGroupByGuidResult** elements. Otherwise, the properties of the term set group are returned.

3.1.4.13.1 Messages

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

3.1.4.13.1.1 IMetadataWebServiceApplication_GetGroupByGuid_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroupByGuid
```

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

3.1.4.13.1.2 IMetadataWebServiceApplication_GetGroupByGuid_OutputMessage

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

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

3.1.4.13.2 Elements

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

3.1.4.13.2.1 GetGroupByGuid

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

```
<xs:element name="GetGroupByGuid">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q4="http://schemas.microsoft.com/2003/10/Serialization/" type="q4:guid"/>
      <xs:element minOccurs="1" name="groupGuid"
        xmlns:q5="http://schemas.microsoft.com/2003/10/Serialization/" type="q5:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

groupGuid: The **term set group** identifier, which MUST NOT be NULL.

3.1.4.13.2.2 GetGroupByGuidResponse

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

```
<xs:element name="GetGroupByGuidResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetGroupByGuidResult" nillable="true"
        type="GetGroupsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetGroupByGuidResult: A **GetGroupsRoot** element (section [2.2.4.15](#)) element that contains the properties of the **term set group**.

3.1.4.13.3 Complex Types

None.

3.1.4.13.4 Simple Types

None.

3.1.4.13.5 Attributes

None.

3.1.4.13.6 Groups

None.

3.1.4.13.7 Attribute Groups

None.

3.1.4.14 GetGroups

This operation is called to retrieve the properties of the specified **term set groups** from the specified **term store partition**.

```
<wsdl:operation name="GetGroups">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroups"
    message="tns:IMetadataWebServiceApplication_GetGroups_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroupsResponse"
    message="tns:IMetadataWebServiceApplication_GetGroups_OutputMessage"/>
</wsdl:operation>
```

If the term store partition does not exist, the response MUST contain no **GetGroupsResult** elements. Otherwise, the properties of the each term set group specified by the **groupIds** parameter, if it exists, are returned.

3.1.4.14.1 Messages

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

3.1.4.14.1.1 IMetadataWebServiceApplication_GetGroups_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroups
```

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

3.1.4.14.1.2 IMetadataWebServiceApplication_GetGroups_OutputMessage

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

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

3.1.4.14.2 Elements

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

3.1.4.14.2.1 GetGroups

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

```
<xs:element name="GetGroups">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/" type="q6:guid"/>
    <xs:element minOccurs="1" name="groupIds" nillable="false"
xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q7:ArrayOfint"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

groupIds: A list of **term set group internal identifiers**.

3.1.4.14.2.2 GetGroupsResponse

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

```

<xs:element name="GetGroupsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetGroupsResult" nillable="true" type="GetGroupsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetGroupsResult: A **GetGroupsRoot** element (section [2.2.4.15](#)) for each **term set group**.

3.1.4.14.3 Complex Types

None.

3.1.4.14.4 Simple Types

None.

3.1.4.14.5 Attributes

None.

3.1.4.14.6 Groups

None.

3.1.4.14.7 Attribute Groups

None.

3.1.4.15 GetIsServiceApplicationPartitioned

This operation is called to find out if the **service application** contains partitioned **term stores**.

```

<wsdl:operation name="GetIsServiceApplicationPartitioned">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetIsServiceApplicationPartitioned"
message="tns:IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetIsServiceApplicationPartitioned_OutputMessage"/>

```

```

tion/GetIsServiceApplicationPartitionedResponse"
message="tns:IMetadataWebServiceApplication GetIsServiceApplicationPartitioned OutputMessage"
/>
</wsdl:operation>

```

This operation MUST return "true" if the service application contains partitioned term stores.

3.1.4.15.1 Messages

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

3.1.4.15.1.1 IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_InputMessage

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

The **SOAP action** value is:

```

http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetIsServiceApplicationPartitioned

```

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

3.1.4.15.1.2 IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_OutputMessage

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

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

3.1.4.15.2 Elements

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

3.1.4.15.2.1 GetIsServiceApplicationPartitioned

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

```

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

```

3.1.4.15.2.2 GetIsServiceApplicationPartitionedResponse

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

```

<xs:element name="GetIsServiceApplicationPartitionedResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetIsServiceApplicationPartitionedResult"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetIsServiceApplicationPartitionedResult: Whether the **service application** contains partitioned **term stores**.

3.1.4.15.3 Complex Types

None.

3.1.4.15.4 Simple Types

None.

3.1.4.15.5 Attributes

None.

3.1.4.15.6 Groups

None.

3.1.4.15.7 Attribute Groups

None.

3.1.4.16 GetServiceApplicationName

This operation is called to retrieve the name of the **service application**.

```
<wsdl:operation name="GetServiceApplicationName">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationName"
    message="tns:IMetadataWebServiceApplication_GetServiceApplicationName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationNameResponse"
    message="tns:IMetadataWebServiceApplication_GetServiceApplicationName_OutputMessage"/>
</wsdl:operation>
```

The name of the service application is returned.

3.1.4.16.1 Messages

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

3.1.4.16.1.1 IMetadataWebServiceApplication_GetServiceApplicationName_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationName
```

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

3.1.4.16.1.2 IMetadataWebServiceApplication_GetServiceApplicationName_OutputMessage

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

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

3.1.4.16.2 Elements

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

3.1.4.16.2.1 GetServiceApplicationName

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

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

3.1.4.16.2.2 GetServiceApplicationNameResponse

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

```
<xs:element name="GetServiceApplicationNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetServiceApplicationNameResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetServiceApplicationNameResult: The name of the **service application**.

3.1.4.16.3 Complex Types

None.

3.1.4.16.4 Simple Types

None.

3.1.4.16.5 Attributes

None.

3.1.4.16.6 Groups

None.

3.1.4.16.7 Attribute Groups

None.

3.1.4.17 GetServiceApplicationSettings

This operation is called to retrieve the settings of the **service application**. Those settings are applied to all **term store partitions** on this service application.

```
<wsdl:operation name="GetServiceApplicationSettings">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationSettings"
    message="tns:IMetadataWebServiceApplication_GetServiceApplicationSettings_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationSettingsResponse"
    message="tns:IMetadataWebServiceApplication_GetServiceApplicationSettings_OutputMessage"/>
</wsdl:operation>
```

The settings of the service application are returned.

3.1.4.17.1 Messages

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

3.1.4.17.1.1 IMetadataWebServiceApplication_GetServiceApplicationSettings_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationSettings
```

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

3.1.4.17.1.2 IMetadataWebServiceApplication_GetServiceApplicationSettings_OutputMessage

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

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

3.1.4.17.2 Elements

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

3.1.4.17.2.1 GetServiceApplicationSettings

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

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

3.1.4.17.2.2 GetServiceApplicationSettingsResponse

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

```
<xs:element name="GetServiceApplicationSettingsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetServiceApplicationSettingsResult" nillable="true"
type="GetServiceSettingsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetServiceApplicationSettingsResult: The settings of the **service application**.

3.1.4.17.3 Complex Types

None.

3.1.4.17.4 Simple Types

None.

3.1.4.17.5 Attributes

None.

3.1.4.17.6 Groups

None.

3.1.4.17.7 Attribute Groups

None.

3.1.4.18 GetServiceSettings

This operation is called to retrieve the settings of a **term store partition**.

```
<wsdl:operation name="GetServiceSettings">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/GetServiceSettings"
message="tns:IMetadataWebServiceApplication GetServiceSettings InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/GetServiceSettingsResponse"
message="tns:IMetadataWebServiceApplication_GetServiceSettings_OutputMessage"/>
</wsdl:operation>
```

The settings of the term store partition are returned.

3.1.4.18.1 Messages

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

3.1.4.18.1.1 IMetadataWebServiceApplication_GetServiceSettings_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceSettings
```

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

3.1.4.18.1.2 IMetadataWebServiceApplication_GetServiceSettings_OutputMessage

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

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

3.1.4.18.2 Elements

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

3.1.4.18.2.1 GetServiceSettings

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

```
<xs:element name="GetServiceSettings">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q66="http://schemas.microsoft.com/2003/10/Serialization/" type="q66:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

3.1.4.18.2.2 GetServiceSettingsResponse

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

```
<xs:element name="GetServiceSettingsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetServiceSettingsResult" nillable="true"
        type="GetServiceSettingsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetServiceSettingsResult: A **GetServiceSettingsResult** element that contains the settings for the **term store partition**.

3.1.4.18.3 Complex Types

None.

3.1.4.18.4 Simple Types

None.

3.1.4.18.5 Attributes

None.

3.1.4.18.6 Groups

None.

3.1.4.18.7 Attribute Groups

None.

3.1.4.19 GetSessionData

This operation is called to retrieve **session** related data for the specified **term store partition**.

```
<wsdl:operation name="GetSessionData">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionData" message="tns:IMetadataWebServiceApplication_GetSessionData_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionDataResponse" message="tns:IMetadataWebServiceApplication_GetSessionData_OutputMessage"/>
</wsdl:operation>
```

If the specified term store partition has not been created, the protocol server creates it and performs implementation-specific initialization. Then the session-related data for the specified term store partition are returned.

3.1.4.19.1 Messages

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

3.1.4.19.1.1 IMetadataWebServiceApplication_GetSessionData_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionData
```

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

3.1.4.19.1.2 IMetadataWebServiceApplication_GetSessionData_OutputMessage

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

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

3.1.4.19.2 Elements

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

3.1.4.19.2.1 GetSessionData

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

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

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
    <xs:element minOccurs="1" name="lcid" type="LCID"/>
    <xs:element minOccurs="1" name="systemGroupName" nillable="false" type="xs:string"/>
    <xs:element minOccurs="1" name="systemGroupDescription" nillable="false"
type="xs:string"/>
    <xs:element minOccurs="1" name="keywordsTermsetName" nillable="false"
type="xs:string"/>
    <xs:element minOccurs="1" name="keywordsTermsetDescription" nillable="false"
type="xs:string"/>
    <xs:element minOccurs="1" name="orphanedTermsTermsetName" nillable="false"
type="xs:string"/>
    <xs:element minOccurs="1" name="orphanedTermsTermsetDescription" nillable="false"
type="xs:string"/>
    <xs:element minOccurs="1" name="hashtagsTermsetName" nillable="false"
type="xs:string"/>
    <xs:element minOccurs="1" name="hashtagsTermsetDescription" nillable="false"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

lcid: An **LCID** for the default language if the **term store partition** has to be created.

systemGroupName: The name of the system **term set group** if the term store partition has to be created. The name **MUST NOT** contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It **MUST** be less than or equal to 255 characters in length.

systemGroupDescription: The description of the system term set group if the term store partition has to be created. It **MUST** be less than or equal to 1000 characters in length.

keywordsTermsetName: The name of the term set of keywords if the term store partition has to be created. The name **MUST NOT** contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)

- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

keywordsTermsetDescription: The description of the keyword term set if the term store partition has to be created. It MUST be less than or equal to 1000 characters in length.

orphanedTermsTermsetName: The name of the **orphaned terms term set** if the term store partition has to be created. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

orphanedTermsTermsetDescription: The description of the orphaned terms term set if the term store partition has to be created. It MUST be less than or equal to 1000 characters in length.

hashtagsTermsetName: The name of the hash tags term set if the term store partition has to be created. [<18>](#) The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

hashtagsTermsetDescription: The description of the hash tags term set if the term store partition has to be created. [<19>](#) It MUST be less than or equal to 1000 characters in length.

3.1.4.19.2.2 GetSessionDataResponse

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

```
<xs:element name="GetSessionDataResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSessionDataResult" nillable="true"
type="GetSessionDataRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

GetSessionDataResult: Session related data for the specified **term store partition**.

3.1.4.19.3 Complex Types

None.

3.1.4.19.4 Simple Types

None.

3.1.4.19.5 Attributes

None.

3.1.4.19.6 Groups

None.

3.1.4.19.7 Attribute Groups

None.

3.1.4.20 GetSitesContainingTerms

This operation is reserved and MUST NOT be called.

```
<wsdl:operation name="GetSitesContainingTerms">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSitesContainingTerms"
    message="tns:IMetadataWebServiceApplication_GetSitesContainingTerms_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSitesContainingTermsResponse"
    message="tns:IMetadataWebServiceApplication_GetSitesContainingTerms_OutputMessage"/>
</wsdl:operation>
```

Will be removed for final release.

3.1.4.20.1 Messages

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

3.1.4.20.1.1 IMetadataWebServiceApplication_GetSitesContainingTerms_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSitesContainingTerms
```

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

3.1.4.20.1.2 IMetadataWebServiceApplication_GetSitesContainingTerms_OutputMessage

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

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

3.1.4.20.2 Elements

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

3.1.4.20.2.1 GetSitesContainingTerms

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

```
<xs:element name="GetSitesContainingTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q45="http://schemas.microsoft.com/2003/10/Serialization/" type="q45:guid"/>
      <xs:element minOccurs="1" name="termSetIdMappings" nillable="false"
        xmlns:q46="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q46:ArrayOfKeyValueOfguidArrayOfguidox8ieOcg"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetIdMappings: Reserved. MUST be ignored

3.1.4.20.2.2 GetSitesContainingTermsResponse

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

```
<xs:element name="GetSitesContainingTermsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSitesContainingTermsResult" nillable="true"
        type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetSitesContainingTermsResult: Reserved. MUST be ignored

3.1.4.20.3 Complex Types

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

3.1.4.20.3.1 ArrayOfKeyValueOfguidArrayOfguidox8ieOcg

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

Reserved. MUST NOT be used. It is defined as follows.

```

<xs:complexType name="ArrayOfKeyValueOfguidArrayOfguidox8ieOcg">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfguidArrayOfguidox8ieOcg">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" type="ser:guid"/>
          <xs:element name="Value" nillable="true" type="tns:ArrayOfguid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

KeyValueOfguidArrayOfguidox8ieOcg: Reserved.

KeyValueOfguidArrayOfguidox8ieOcg.Key: Reserved.

KeyValueOfguidArrayOfguidox8ieOcg.Value: Reserved.

3.1.4.20.4 Simple Types

None.

3.1.4.20.5 Attributes

None.

3.1.4.20.6 Groups

None.

3.1.4.20.7 Attribute Groups

None.

3.1.4.21 GetSortedChildTermIds

This operation is called to retrieve the terms that are **children** of a term.

```

<wsdl:operation name="GetSortedChildTermIds">
  <wsdl:input>
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSortedChildTermIds"
    message="tns:IMetadataWebServiceApplication GetSortedChildTermIds InputMessage"/>
  <wsdl:output>
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSortedChildTermIdsResponse"
    message="tns:IMetadataWebServiceApplication GetSortedChildTermIds OutputMessage"/>
</wsdl:operation>

```

The identifiers of the child **terms** are sorted in alphabetical order based on their effective labels. The effective label is determined as follows: if the term has a **term label** in the language corresponding to the **locale** parameter, that term label is the effective label, or if there is more than one term label in that locale, the default term label for that locale is used. Otherwise, the effective label is the term label in the language corresponding to the default language of the **term store partition**, or if there is more than one term label in the default language, then the default term label for that language is used.

3.1.4.21.1 Messages

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

3.1.4.21.1.1 IMetadataWebServiceApplication_GetSortedChildTermIds_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSortedChildTermIds
```

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

3.1.4.21.1.2 IMetadataWebServiceApplication_GetSortedChildTermIds_OutputMessage

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

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

3.1.4.21.2 Elements

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

3.1.4.21.2.1 GetSortedChildTermIds

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

```
<xs:element name="GetSortedChildTermIds">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q18="http://schemas.microsoft.com/2003/10/Serialization/" type="q18:guid"/>
      <xs:element minOccurs="1" name="termSetId" type="xs:int"/>
      <xs:element minOccurs="1" name="parentTermId" type="xs:int"/>
      <xs:element minOccurs="1" name="locale" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetId: The **internal identifier** of the **term set** to which the **term** belongs.

parentTermId: The internal identifier of the term.

locale: The **LCID** of the language to be used for sorting the terms that are **children**.

3.1.4.21.2.2 GetSortedChildTermIdsResponse

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

```
<xs:element name="GetSortedChildTermIdsResponse">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="GetSortedChildTermIdsResult" nillable="true"
type="GetSortedChildTermIdsRoot"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

GetSortedChildTermIdsResult: A **GetSortedChildTermIdsRoot** element (section [3.1.4.21.3.1](#)) containing the **terms** found that are **children** of the specified term.

3.1.4.21.3 Complex Types

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

3.1.4.21.3.1 GetSortedChildTermIdsRoot

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

The **terms** that are **children**.

```

<xs:complexType name="GetSortedChildTermIdsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="T">
            <xs:complexType>
              <xs:attribute name="a9" type="ser:guid" use="required"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.T: A term that is a child.

Root.T.a9: The identifier of a child term.

3.1.4.21.4 Simple Types

None.

3.1.4.21.5 Attributes

None.

3.1.4.21.6 Groups

None.

3.1.4.21.7 Attribute Groups

None.

3.1.4.22 GetTerm

This operation is called to retrieve details about a **term**.

```
<wsdl:operation name="GetTerm">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm"
message="tns:IMetadataWebServiceApplication_GetTerm_InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermResponse"
message="tns:IMetadataWebServiceApplication_GetTerm_OutputMessage"/>
</wsdl:operation>
```

If the term does not exist in the specified **term set** and **term store partition**, an empty **GetTermResponse** MUST be returned. If the term was previously merged with another term, the details of the **merged term** are returned. Otherwise, the details of the term are returned.

3.1.4.22.1 Messages

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

3.1.4.22.1.1 IMetadataWebServiceApplication_GetTerm_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
```

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

3.1.4.22.1.2 IMetadataWebServiceApplication_GetTerm_OutputMessage

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

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

3.1.4.22.2 Elements

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

3.1.4.22.2.1 GetTerm

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

```
<xs:element name="GetTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/" type="q8:guid"/>
      <xs:element minOccurs="1" name="termGuid"
xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/" type="q9:guid"/>
      <xs:element minOccurs="1" name="termSetId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termGuid: The identifier of the **term**.

termSetId: The **internal identifier** of the **term set** of which the term is a member.

3.1.4.22.2.2 GetTermResponse

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

```
<xs:element name="GetTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermResult" nillable="true" type="GetTermRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTermResult: A **GetTermRoot** element (section [2.2.4.17](#)) that contains the details of the **term**.

3.1.4.22.3 Complex Types

None.

3.1.4.22.4 Simple Types

None.

3.1.4.22.5 Attributes

None.

3.1.4.22.6 Groups

None.

3.1.4.22.7 Attribute Groups

None.

3.1.4.23 GetTerms

This operation is called to get details about multiple **terms**.

```
<wsdl:operation name="GetTerms">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerms"
    message="tns:IMetadataWebServiceApplication_GetTerms_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermsResponse"
    message="tns:IMetadataWebServiceApplication_GetTerms_OutputMessage"/>
</wsdl:operation>
```

Any term that does not exist in the specified **term store partition** is ignored. For each term that was previously merged with another term, the details of the merged term are returned. Otherwise, the details of the term are returned.

3.1.4.23.1 Messages

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

3.1.4.23.1.1 IMetadataWebServiceApplication_GetTerms_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerms
```

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

3.1.4.23.1.2 IMetadataWebServiceApplication_GetTerms_OutputMessage

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

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

3.1.4.23.2 Elements

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

3.1.4.23.2.1 GetTerms

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

```
<xs:element name="GetTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/" type="q12:guid"/>
      <xs:element minOccurs="1" name="termGuids" nillable="false"
        xmlns:q13="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q13:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termGuids: A list of identifiers of **terms**.

3.1.4.23.2.2 GetTermsResponse

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

```
<xs:element name="GetTermsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermsResult" nillable="true"
        type="SearchedTermsRootStandard"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTermsResult: A **SearchedTermsRootStandard** element (section [2.2.4.21](#)) that contains details of the **terms**.

3.1.4.23.3 Complex Types

None.

3.1.4.23.4 Simple Types

None.

3.1.4.23.5 Attributes

None.

3.1.4.23.6 Groups

None.

3.1.4.23.7 Attribute Groups

None.

3.1.4.24 GetTermSets

This operation is called to get details about multiple of **term sets**.

```
<wsdl:operation name="GetTermSets">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSets"
    message="tns:IMetadataWebServiceApplication_GetTermSets_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsResponse"
    message="tns:IMetadataWebServiceApplication_GetTermSets_OutputMessage"/>
</wsdl:operation>
```

Any term set that does not exist in the specified **term store partition** is ignored. Otherwise, the details of each specified term set are returned.

3.1.4.24.1 Messages

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

3.1.4.24.1.1 IMetadataWebServiceApplication_GetTermSets_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSets
```

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

3.1.4.24.1.2 IMetadataWebServiceApplication_GetTermSets_OutputMessage

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

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

3.1.4.24.2 Elements

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

3.1.4.24.2.1 GetTermSets

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

```
<xs:element name="GetTermSets">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q14="http://schemas.microsoft.com/2003/10/Serialization/" type="q14:guid"/>
      <xs:element minOccurs="1" name="termSetGuids" nillable="false"
xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q15:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

termSetGuids: A list of **term set** identifiers.

3.1.4.24.2.2 GetTermSetsResponse

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

```
<xs:element name="GetTermSetsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetsResult" nillable="true"
type="GetGroupsAndTermSetsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTermSetsResult: A **GetGroupsAndTermSetsRoot** element (section [2.2.4.14](#)) that contains information about the **term sets**.

3.1.4.24.3 Complex Types

None.

3.1.4.24.4 Simple Types

None.

3.1.4.24.5 Attributes

None.

3.1.4.24.6 Groups

None.

3.1.4.24.7 Attribute Groups

None.

3.1.4.25 GetTermSetsByLabel

This operation is called to get details about **term sets** that contain **terms** with the specified **term labels**.

```
<wsdl:operation name="GetTermSetsByLabel">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsByLabel" message="tns:IMetadataWebServiceApplication GetTermSetsByLabel InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsByLabelResponse"
    message="tns:IMetadataWebServiceApplication GetTermSetsByLabel OutputMessage"/>
</wsdl:operation>
```

This operation searches for all term sets in a **term store partition** that contain terms with the specified term labels. The following additional constraints apply:

- Every matched term set **MUST** contain at least one term with a term label that matches each specified label. Term sets with terms matching only some of the specified term labels are not returned.
- Additional implementation specific [<20>](#) constraints.

If one or more term sets contain terms that match every specified term label, all those term sets are returned. If the term store partition is not found, or if no term set contains terms that match all of the specified term labels, the result set **MUST** be empty. The search is case-insensitive, and matches that the term labels start with the value specified.

3.1.4.25.1 Messages

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

3.1.4.25.1.1 IMetadataWebServiceApplication_GetTermSetsByLabel_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsByLabel
```

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

3.1.4.25.1.2 IMetadataWebServiceApplication_GetTermSetsByLabel_OutputMessage

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

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

3.1.4.25.2 Elements

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

3.1.4.25.2.1 GetTermSetsByLabel

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

```
<xs:element name="GetTermSetsByLabel">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q39="http://schemas.microsoft.com/2003/10/Serialization/" type="q39:guid"/>
      <xs:element minOccurs="1" name="labels" nillable="false"
        xmlns:q40="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q40:ArrayOfstring"/>
      <xs:element minOccurs="0" name="lcid" nillable="true" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

labels: A list of **term label** strings which are used to search for **term sets** that contain matching **terms**.

lcid: An **LCID** that restricts the language in which the specified term labels are matched. If this parameter is NULL, the default language of each term is used.

3.1.4.25.2.2 GetTermSetsByLabelResponse

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

```
<xs:element name="GetTermSetsByLabelResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetsByLabelResult" nillable="true"
        type="GetGroupsAndTermSetsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTermSetsByLabelResult: A **GetGroupsAndTermSetsRoot** element (section [2.2.4.14](#)) that contains information about the **term sets**.

3.1.4.25.3 Complex Types

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

3.1.4.25.3.1 ArrayOfstring

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

A list of strings defined as follows.

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

string: A string.

3.1.4.25.4 Simple Types

None.

3.1.4.25.5 Attributes

None.

3.1.4.25.6 Groups

None.

3.1.4.25.7 Attribute Groups

None.

3.1.4.26 GetTermSetsInternal

This operation is called to get details about multiple of **term sets**.

```
<wsdl:operation name="GetTermSetsInternal">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsInternal"
    message="tns:IMetadataWebServiceApplication GetTermSetsInternal InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsInternalResponse"
    message="tns:IMetadataWebServiceApplication GetTermSetsInternal OutputMessage"/>
</wsdl:operation>
```

Any term set that does not exist in the specified **term store partition** is ignored. Otherwise, the details of each specified term set are returned.

3.1.4.26.1 Messages

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

3.1.4.26.1.1 IMetadataWebServiceApplication_GetTermSetsInternal_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsInternal
```

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

3.1.4.26.1.2 IMetadataWebServiceApplication_GetTermSetsInternal_OutputMessage

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

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

3.1.4.26.2 Elements

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

3.1.4.26.2.1 GetTermSetsInternal

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

```
<xs:element name="GetTermSetsInternal">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/" type="q16:guid"/>
      <xs:element minOccurs="1" name="termSetIds" nillable="false"
        xmlns:q17="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q17:ArrayOfint"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetIds: A list of **term sets internal identifiers**.

3.1.4.26.2 GetTermSetsInternalResponse

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

```
<xs:element name="GetTermSetsInternalResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetsInternalResult" nillable="true"
        type="GetTermSetRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTermSetsInternalResult: A **GetTermSetRoot** element (section [3.1.4.26.3.1](#)) that contains details about the **term sets**.

3.1.4.26.3 Complex Types

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

3.1.4.26.3.1 GetTermSetRoot

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

The **GetTermSetRoot** complex type contains information about **term sets** defined as follows.

```
<xs:complexType name="GetTermSetRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" name="TS" type="SerializedECMTermSetTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="RT" type="SerializedECMRootTermTableRow"/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult"/>
          <xs:element maxOccurs="unbounded" name="TP"
            type="SerializedECMTermPropertyTableRowForRead"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Root: Root element.

Root.TS: A **SerializedECMTermSetTableRow** (section [2.2.4.38](#)) for every term set.

Root.NextResult: Separates the preceding set of results of one type from the next set of a different type.

Root.RT: A **SerializedECMRootTermTableRow** (section [2.2.4.28](#)) for every root **term** in the term sets in **Root.TS**.

Root.TP: A **SerializedECMTermPropertyTableRowForRead** element (section [2.2.4.35](#)) for each term set.

3.1.4.26.4 Simple Types

None.

3.1.4.26.5 Attributes

None.

3.1.4.26.6 Groups

None.

3.1.4.26.7 Attribute Groups

None.

3.1.4.27 GetTermSetWithAllTerms

This operation is called to retrieve the **terms** in a **term set**.

```
<wsdl:operation name="GetTermSetWithAllTerms">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTerms"
    message="tns:IMetadataWebServiceApplication_GetTermSetWithAllTerms_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTermsResponse"
    message="tns:IMetadataWebServiceApplication_GetTermSetWithAllTerms_OutputMessage"/>
</wsdl:operation>
```

The protocol server returns the terms as follows:

1. If either the **term store partition** or the term set are not found, the **GetTermSetWithAllTermsResponse** element MUST contain an empty root node.
2. If the term set exists in the term store partition but does not contain any terms, the **GetTermSetWithAllTermsResponse** element MUST contain five **NextResult** nodes surrounded by a root node. That is to say, there MUST NOT be any T, TL, TD, TP, TM or CT nodes in the result, as defined by **GetTermRoot** (section [2.2.4.17](#)).
3. If the term set exists in the term store partition and contains at least one term, the **GetTermSetWithAllTermsResponse** element MUST contain five **NextResult** nodes surrounded by a root node, and MUST contain **T**, **TL** and **TM** nodes for each term contained in the term set, as defined by **GetTermRoot**.

The terms, if any, MUST be returned in sorted order according to their hierarchy, that is, parent terms MUST be listed before terms are **children**.

3.1.4.27.1 Messages

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

3.1.4.27.1.1 IMetadataWebServiceApplication_GetTermSetWithAllTerms_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTerms
```

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

3.1.4.27.1.2 IMetadataWebServiceApplication_GetTermSetWithAllTerms_OutputMessage

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

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

3.1.4.27.2 Elements

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

3.1.4.27.2.1 GetTermSetWithAllTerms

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

```
<xs:element name="GetTermSetWithAllTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q21="http://schemas.microsoft.com/2003/10/Serialization/" type="q21:guid"/>
      <xs:element minOccurs="1" name="termSetGuid"
        xmlns:q22="http://schemas.microsoft.com/2003/10/Serialization/" type="q22:guid"/>
      <xs:element minOccurs="1" name="includeDeprecated" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetGuid: The **term set** identifier.

includeDeprecated: Reserved. This parameter MUST be set to "false".

3.1.4.27.2.2 GetTermSetWithAllTermsResponse

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

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

```

    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetWithAllTermsResult" nillable="true"
type="GetTermRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetTermSetWithAllTermsResult: A **GetTermRoot** element (section [2.2.4.17](#)) that contains details of the **terms** in the **term set**.

3.1.4.27.3 Complex Types

None.

3.1.4.27.4 Simple Types

None.

3.1.4.27.5 Attributes

None.

3.1.4.27.6 Groups

None.

3.1.4.27.7 Attribute Groups

None.

3.1.4.28 GetTermsInternal

This operation is called to retrieve the specified **terms**.

```

<wsdl:operation name="GetTermsInternal">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTer
msInternal" message="tns:IMetadataWebServiceApplication_GetTermsInternal_InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTer
msInternalResponse"
message="tns:IMetadataWebServiceApplication GetTermsInternal OutputMessage"/>
</wsdl:operation>

```

Any term that does not exist in the specified **term store partition** is ignored. Otherwise, the details of each specified term are returned.

3.1.4.28.1 Messages

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

3.1.4.28.1.1 IMetadataWebServiceApplication_GetTermsInternal_InputMessage

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

The **SOAP action** value is:

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

3.1.4.28.1.2 IMetadataWebServiceApplication_GetTermsInternal_OutputMessage

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

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

3.1.4.28.2 Elements

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

3.1.4.28.2.1 GetTermsInternal

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

```
<xs:element name="GetTermsInternal">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/" type="q10:guid"/>
      <xs:element minOccurs="1" name="termIds" nillable="false"
        xmlns:q11="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q11:ArrayOfint"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termIds: A list of **term internal identifiers**.

3.1.4.28.2.2 GetTermsInternalResponse

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

```
<xs:element name="GetTermsInternalResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermsInternalResult" nillable="true"
        type="GetTermRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTermsInternalResult: A **GetTermRoot** element (section [2.2.4.17](#)) that contains information about the **terms**.

3.1.4.28.3 Complex Types

None.

3.1.4.28.4 Simple Types

None.

3.1.4.28.5 Attributes

None.

3.1.4.28.6 Groups

None.

3.1.4.28.7 Attribute Groups

None.

3.1.4.29 GetUpdateInformation

This operation is called to get information about **content type package** changes that happened after the specified time.

```
<wsdl:operation name="GetUpdateInformation">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetUpdateInformation"
    message="tns:IMetadataWebServiceApplication GetUpdateInformation InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetUpdateInformationResponse"
    message="tns:IMetadataWebServiceApplication GetUpdateInformation OutputMessage"/>
</wsdl:operation>
```

Changes to content type packages that have been made after the specified time are returned.

3.1.4.29.1 Messages

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

3.1.4.29.1.1 IMetadataWebServiceApplication_GetUpdateInformation_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetUpdateInformation
```

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

3.1.4.29.1.2 IMetadataWebServiceApplication_GetUpdateInformation_OutputMessage

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

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

3.1.4.29.2 Elements

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

3.1.4.29.2.1 GetUpdateInformation

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

```
<xs:element name="GetUpdateInformation">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q73="http://schemas.microsoft.com/2003/10/Serialization/" type="q73:guid"/>
      <xs:element minOccurs="1" name="lastUpdateTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

lastUpdateTime: A time in **UTC**.

3.1.4.29.2 GetUpdateInformationResponse

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

```
<xs:element name="GetUpdateInformationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="GetUpdateInformationResult"
        xmlns:q74="http://schemas.microsoft.com/Message" type="q74:StreamBody"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetUpdateInformationResult: Specifies information about new or updated **content type packages**, which MUST be a **base64** encoded XML document that conforms to the schema of the **GetUpdateInformationRoot** complex type (section [2.2.4.18](#)).

3.1.4.29.3 Complex Types

None.

3.1.4.29.4 Simple Types

None.

3.1.4.29.5 Attributes

None.

3.1.4.29.6 Groups

None.

3.1.4.29.7 Attribute Groups

None.

3.1.4.30 ImportPartitionData

This operation is called to import data into a **term store partition**.

```

<wsdl:operation name="ImportPartitionData">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData"
message="tns:IMetadataWebServiceApplication_ImportPartitionData_InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionDataResponse"
message="tns:IMetadataWebServiceApplication_ImportPartitionData_OutputMessage"/>
</wsdl:operation>

```

If the user does not have implementation specific rights to read the file at the specified file path, the protocol server MUST send a **SOAP fault** message containing a System.Exception. If a term store partition with the specified identifier already exists and **overwriteExistingData** is "false", the protocol server MUST send a SOAP fault message containing a System.InvalidOperationException. Otherwise, the protocol server imports the implementation specific data from the specified file path.

3.1.4.30.1 Messages

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

3.1.4.30.1.1 IMetadataWebServiceApplication_ImportPartitionData_InputMessage

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

The **SOAP action** value is:

```

http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData

```

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

3.1.4.30.1.2 IMetadataWebServiceApplication_ImportPartitionData_OutputMessage

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

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

3.1.4.30.2 Elements

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

3.1.4.30.2.1 ImportPartitionData

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

```

<xs:element name="ImportPartitionData">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q82="http://schemas.microsoft.com/2003/10/Serialization/" type="q82:guid"/>
      <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="overwriteExistingData" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

filePath: **UNC** path to the **cabinet (.cab)** file that contains the data to import.

overwriteExistingData: Whether an existing **term store partition** with the identifier specified by the **rawPartitionId** parameter is overwritten by the import.

3.1.4.30.2 ImportPartitionDataResponse

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

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

3.1.4.30.3 Complex Types

None.

3.1.4.30.4 Simple Types

None.

3.1.4.30.5 Attributes

None.

3.1.4.30.6 Groups

None.

3.1.4.30.7 Attribute Groups

None.

3.1.4.31 InitiateCacheFlush

This operation is called to indicate that the protocol client needs to flush any caches that it is maintaining.

```
<wsdl:operation name="InitiateCacheFlush">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/InitiateCacheFlush"
    message="tns:IMetadataWebServiceApplication InitiateCacheFlush InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/InitiateCacheFlushResponse"
    message="tns:IMetadataWebServiceApplication_InitiateCacheFlush_OutputMessage"/>
</wsdl:operation>
```

The protocol server adds a change log entry which will be returned by the **GetChanges** operation (section [3.1.4.7.2.1](#)). The **GetChanges** operation can be called by the client protocol to determine when client side caches have become invalid and need to be refreshed.

3.1.4.31.1 Messages

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

3.1.4.31.1.1 IMetadataWebServiceApplication_InitiateCacheFlush_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/InitiateCacheFlush
```

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

3.1.4.31.1.2 IMetadataWebServiceApplication_InitiateCacheFlush_OutputMessage

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

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

3.1.4.31.2 Elements

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

3.1.4.31.2.1 InitiateCacheFlush

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

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

3.1.4.31.2.2 InitiateCacheFlushResponse

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

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

3.1.4.31.3 Complex Types

None.

3.1.4.31.4 Simple Types

None.

3.1.4.31.5 Attributes

None.

3.1.4.31.6 Groups

None.

3.1.4.31.7 Attribute Groups

None.

3.1.4.32 PublishPackage

This operation is called to publish a **content type package** to the specified **term store partition**.

```
<wsdl:operation name="PublishPackage">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/PublishPackage"
    message="tns:IMetadataWebServiceApplication_PublishPackage_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/PublishPackageResponse"
    message="tns:IMetadataWebServiceApplication_PublishPackage_OutputMessage"/>
</wsdl:operation>
```

The protocol server adds the content type package to the list of available content type packages for the term store partition.

3.1.4.32.1 Messages

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

3.1.4.32.1.1 IMetadataWebServiceApplication_PublishPackage_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/PublishPackage
```

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

3.1.4.32.1.2 IMetadataWebServiceApplication_PublishPackage_OutputMessage

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

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

3.1.4.32.2 Elements

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

3.1.4.32.2.1 PublishPackage

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

```
<xs:element name="PublishPackage">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="content" nillable="false" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

content: The information about the content of a **content type package**. The first 16 bytes are the **term store partition identifier**. The bytes after the first 16 bytes and before the first encountered whitespace byte are the identifier of a **content type**. The next 16 bytes are reserved and MUST be the **GUID** "B4AD3A44-D934-4c91-8D1F-463ACEADE443". The rest of the bytes are the **base64** encoded content of the package. The package MUST be a valid **deployment package**. The deployment package MUST be compressed, as specified in [MS-PRIMEPF] section 1.3. The deployment package MUST contain representations of a content type, all **fields** of the content type, the root **folder** of the content type, and everything in the folder. The deployment package MUST NOT contain any security attributes, as specified in [MS-PRIMEPF] section 2.2.4.4. If the content type has one or more **workflow associations**, the deployment package MUST contain an additional **XML** file named workflowassociation.xml containing content that MUST adhere to the definition of the **WorkflowData** element in section 2.2.4.42.

3.1.4.32.2 PublishPackageResponse

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

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

3.1.4.32.3 Complex Types

None.

3.1.4.32.4 Simple Types

None.

3.1.4.32.5 Attributes

None.

3.1.4.32.6 Groups

None.

3.1.4.32.7 Attribute Groups

None.

3.1.4.33 RemoveUsedTermSet

This operation is called to remove **term** usage information for terms belonging to the specified **term set**.

```
<wsdl:operation name="RemoveUsedTermSet">
  <wsdl:input
  wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/RemoveUsedTermSet" message="tns:IMetadataWebServiceApplication_RemoveUsedTermSet_InputMessage"/>
```

```

    <wsdl:output
      wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/RemoveUsedTermSetResponse"
      message="tns:IMetadataWebServiceApplication_RemoveUsedTermSet_OutputMessage"/>
  </wsdl:operation>

```

If the term set does not exist in the specified **term store partition** this operation has no effect. Otherwise, the protocol server removes term usage information for terms belonging to the specified term set.

3.1.4.33.1 Messages

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

3.1.4.33.1.1 IMetadataWebServiceApplication_RemoveUsedTermSet_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/RemoveUsedTermSet
```

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

3.1.4.33.1.2 IMetadataWebServiceApplication_RemoveUsedTermSet_OutputMessage

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

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

3.1.4.33.2 Elements

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

3.1.4.33.2.1 RemoveUsedTermSet

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

```

<xs:element name="RemoveUsedTermSet">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q63="http://schemas.microsoft.com/2003/10/Serialization/" type="q63:guid"/>
      <xs:element minOccurs="1" name="termSetId"
        xmlns:q64="http://schemas.microsoft.com/2003/10/Serialization/" type="q64:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetId: **Term set** identifier for the term set.

3.1.4.33.2.2 RemoveUsedTermSetResponse

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

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

3.1.4.33.3 Complex Types

None.

3.1.4.33.4 Simple Types

None.

3.1.4.33.5 Attributes

None.

3.1.4.33.6 Groups

None.

3.1.4.33.7 Attribute Groups

None.

3.1.4.34 SearchTermByLabel

This operation is called to find **terms** that have **term labels** that match a search criteria.

```
<wsdl:operation name="SearchTermByLabel">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByLabel" message="tns:IMetadataWebServiceApplication_SearchTermByLabel_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByLabelResponse"
    message="tns:IMetadataWebServiceApplication_SearchTermByLabel_OutputMessage"/>
</wsdl:operation>
```

First, the protocol server restricts the scope of the search as follows:

1. If the specified **term set** or the specified term does not exist in the **term store partition**, the protocol server **MUST** return zero terms.
2. If both a term set and a term are specified, the search is scoped to the terms that are **children**.
3. If only a term set is specified, the search is scoped to the terms that are members of that term set.
4. If the **getAllLocalTermSets** parameter value is "true", the search is scoped to include all local term sets. Otherwise, the search is scoped to include the local term sets in the **site collection term set group** specified by the **siteGroupId** parameter value.
5. If **lcid** is specified, the search is scoped to the term labels that apply to that language.

6. If the **defaultLabelOnly** parameter is "true", the search is scoped to the default term labels of the terms. Note that if **lcid** is specified, the default term label does not match unless it applies to that language.

The protocol server performs the specified case-insensitive search against the preceding restricted scope and returns the details of the terms that were found as follows:

1. Only the first **resultCollectionSize** number of terms is returned, according to an ascending alphabetical order by term label.
2. When **getFullPath** is "true", the protocol server MUST return the term label path information (attributes **a40**, **a42**, **a41**, and **a15** in the **SerializedECMTermSetMembershipTableRowForRead** element) in the result set. And if both **includeIdPath** and **getFullPath** are "true", the protocol server MUST also include term GUID path information **a71**.
3. If **lcid** is specified, it is used to generate the value of the **a40** attribute if **getFullPath** is "true".
4. If **isOptimized** is "true", group and permission data are not returned.

3.1.4.34.1 Messages

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

3.1.4.34.1.1 IMetadataWebServiceApplication_SearchTermByLabel_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByLabel
```

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

3.1.4.34.1.2 IMetadataWebServiceApplication_SearchTermByLabel_OutputMessage

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

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

3.1.4.34.2 Elements

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

3.1.4.34.2.1 SearchTermByLabel

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

```
<xs:element name="SearchTermByLabel">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q36="http://schemas.microsoft.com/2003/10/Serialization/" type="q36:guid"/>
      <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="anchorId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="1" name="label" nillable="false" type="xs:string"/>
      <xs:element minOccurs="0" name="lcid" nillable="true" type="xs:int"/>
      <xs:element minOccurs="1" name="defaultLabelOnly" type="xs:boolean"/>
      <xs:element minOccurs="1" name="includeIdPath" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element minOccurs="1" name="stringMatchOption"
xmlns:q37="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
type="q37:StringMatchOption"/>
    <xs:element minOccurs="1" name="resultCollectionSize" type="xs:int"/>
    <xs:element minOccurs="1" name="getFullPath" type="xs:boolean"/>
    <xs:element minOccurs="0" name="defaultLcid" nillable="true" type="xs:int"/>
    <xs:element minOccurs="1" name="isOptimized" type="xs:boolean"/>
    <xs:element minOccurs="1" name="getAllLocalTermSets" type="xs:boolean"/>
    <xs:element minOccurs="0" name="siteGroupId" nillable="true" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetId: A **term set internal identifier** used to restrict the scope of the search.

anchorId: A **term** internal identifier used to restrict the scope of the search. This MUST be NULL if **termSetId** is NULL or empty. Otherwise, if specified, the term MUST be a member of the specified term set.

label: A value specifying the **term label** value to search for. It MUST be less than or equal to 255 characters in length.

lcid: An **LCID** used to restrict the scope of the search to a specific language.

defaultLabelOnly: Whether the search will be restricted to matching on default labels only.

includeIdPath: Whether term GUID paths are returned in the result sets. If this value is "false" or **getFullPath** is "false", the term GUID path information MUST NOT be returned. If this value is "true" and the **getFullPath** is "true", the term GUID path information MUST be returned.

stringMatchOption: The type of string match to perform on the term label value. If this value is **StringMatchOption.ExactMatch** (section [2.2.5.11](#)), the value MUST exactly match the search criteria. If this value is **StringMatchOption.StartsWith**, the value MUST begin with the search criteria.

resultCollectionSize: The maximum number of terms to retrieve. This value MUST be zero or greater.

getFullPath: A value indicating whether **term label paths** are retrieved by this operation.

defaultLcid: An LCID used for generating the **a40** attribute value in the **SerializedECMTermSetMembershipTableRowForRead** element (section [2.2.4.37](#)) for the retrieved terms.

isOptimized: Whether a subset of the data will be returned or the complete details of the terms.

getAllLocalTermSets: A value indicating whether to include all local term sets in the search scope. If the **termSetId** is not NULL, this value is ignored. Otherwise, if this value is "true", the search scope includes all the local term sets. If this value is "false", the search scope includes only the local term sets in the **site collection term set group** specified by the **siteGroupId** parameter value.

siteGroupId: A term internal identifier of a term set group. If the **getAllLocalTermSets** parameter value is "true", this value is ignored. Otherwise if this value is not NULL, the search scope includes the local term sets under the site collection term set group specified by this value. If this value is NULL, the search scope does not include any local term sets.

3.1.4.34.2.2 SearchTermByLabelResponse

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


```

<xs:element name="SearchTermByLabelResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchTermByLabelResult" nillable="true"
type="SearchedTermsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

SearchTermByLabelResult: A **SearchedTermsRoot** element (section [2.2.4.19](#)) that contains the **terms** matching the search criteria. This element MUST conform to the schema of the **GetTermRoot** complex type (section [2.2.4.17](#)) if the **termSetId** parameter value is not NULL. Otherwise, this element MUST conform to the schema of the **SearchedTermsRootOptimized** type (section [2.2.4.20](#)) if the **isOptimized** parameter value is "true". Otherwise, this element MUST conform to the schema of the **SearchedTermsRootStandard** type (section [2.2.4.21](#)).

3.1.4.34.3 Complex Types

None.

3.1.4.34.4 Simple Types

None.

3.1.4.34.5 Attributes

None.

3.1.4.34.6 Groups

None.

3.1.4.34.7 Attribute Groups

None.

3.1.4.35 SearchTermByProperty

This operation is called to find **terms** that have properties that match a search criteria.

```

<wsdl:operation name="SearchTermByProperty">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
TermByProperty"
message="tns:IMetadataWebServiceApplication_SearchTermByProperty_InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
TermByPropertyResponse"
message="tns:IMetadataWebServiceApplication_SearchTermByProperty_OutputMessage"/>
</wsdl:operation>

```

First the protocol server restricts the scope of the search as follows:

1. If the specified **term set** does not exist in the **term store partition**, then the protocol server MUST return zero terms.
2. If a term set is specified, the search is scoped to the terms that are members of that term set.

3. Only terms that have the specified **propertyName** (case insensitive) property are considered.

If the **propertyValue** parameter is specified, the protocol server performs the specified case insensitive search against the values of those properties; otherwise, all of the terms from the restricted scope are returned.

3.1.4.35.1 Messages

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

3.1.4.35.1.1 IMetadataWebServiceApplication_SearchTermByProperty_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByProperty
```

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

3.1.4.35.1.2 IMetadataWebServiceApplication_SearchTermByProperty_OutputMessage

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

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

3.1.4.35.2 Elements

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

3.1.4.35.2.1 SearchTermByProperty

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

```
<xs:element name="SearchTermByProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q43="http://schemas.microsoft.com/2003/10/Serialization/" type="q43:guid"/>
      <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="1" name="propertyName" nillable="false" type="xs:string"/>
      <xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"/>
      <xs:element minOccurs="1" name="stringMatchOption"
        xmlns:q44="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
        type="q44:StringMatchOption"/>
      <xs:element minOccurs="1" name="resultCollectionSize" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetId: A **term set internal identifier** used to restrict the scope of the search.

propertyName: The property name to search for. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

propertyValue: The property value to search for. The value MUST NOT contain tab or line break. It MUST be less than or equal to 10240 characters in length.

stringMatchOption: The type of string match to perform on the **term label** value. If this value is **StringMatchOption.ExactMatch** (section [2.2.5.11](#)), the value MUST exactly match the search criteria. If this value is **StringMatchOption.StartsWith** then the value MUST begin with the search criteria.

resultCollectionSize: The maximum number of **terms** to retrieve. This parameter is intended to limit the performance impact for large searches; the order is undefined. This value MUST be zero or greater.

3.1.4.35.2 SearchTermByPropertyResponse

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

```
<xs:element name="SearchTermByPropertyResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchTermByPropertyResult" nillable="true"
        type="SearchedTermsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SearchTermByPropertyResult: A **SearchedTermsRoot** element (section [2.2.4.19](#)) that contains the **terms** matching the search criteria. This element MUST conform to the schema of the **GetTermRoot** type (section [2.2.4.17](#)) if the **termSetId** parameter value is NOT NULL. Otherwise, this element MUST conform to the schema of the **SearchedTermsRootStandard** type (section [2.2.4.21](#)).

3.1.4.35.3 Complex Types

None.

3.1.4.35.4 Simple Types

None.

3.1.4.35.5 Attributes

None.

3.1.4.35.6 Groups

None.

3.1.4.35.7 Attribute Groups

None.

3.1.4.36 SearchTermSetByName

This operation is called to find **term sets** by name.

```
<wsdl:operation name="SearchTermSetByName">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetByName"
    message="tns:IMetadataWebServiceApplication_SearchTermSetByName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetByNameResponse"
    message="tns:IMetadataWebServiceApplication_SearchTermSetByName_OutputMessage"/>
</wsdl:operation>
```

The protocol server returns the details about the term sets that have a name that is an exact case insensitive match of the **termSetName** in the specified **LCID**.

3.1.4.36.1 Messages

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

3.1.4.36.1.1 IMetadataWebServiceApplication_SearchTermSetByName_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetByName
```

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

3.1.4.36.1.2 IMetadataWebServiceApplication_SearchTermSetByName_OutputMessage

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

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

3.1.4.36.2 Elements

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

3.1.4.36.2.1 SearchTermSetByName

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

```

<xs:element name="SearchTermSetByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q38="http://schemas.microsoft.com/2003/10/Serialization/" type="q38:guid"/>
      <xs:element minOccurs="1" name="termSetName" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="lcid" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

termSetName: The name of the **term set** for which to search. It **MUST NOT** contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It **MUST** be less than or equal to 255 characters in length.

lcid: An **LCID** that restricts the language in which the specified term set name will be matched. This value **MUST NOT** be NULL or empty.

3.1.4.36.2 SearchTermSetByNameResponse

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

```

<xs:element name="SearchTermSetByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchTermSetByNameResult" nillable="true"
type="GetGroupsAndTermSetsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

SearchTermSetByNameResult: A **GetGroupsAndTermSetsRoot** element (section [2.2.4.14](#)) that contains information about the **term sets** with names matching **termSetName**.

3.1.4.36.3 Complex Types

None.

3.1.4.36.4 Simple Types

None.

3.1.4.36.5 Attributes

None.

3.1.4.36.6 Groups

None.

3.1.4.36.7 Attribute Groups

None.

3.1.4.37 SetServiceSettings

This operation is called to set a setting for a **term store partition**.

```
<wsdl:operation name="SetServiceSettings">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/SetServiceSettings"
    message="tns:IMetadataWebServiceApplication_SetServiceSettings_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/SetServiceSettingsResponse"
    message="tns:IMetadataWebServiceApplication_SetServiceSettings_OutputMessage"/>
</wsdl:operation>
```

The protocol server stores the term store partition settings that are specified.

3.1.4.37.1 Messages

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

3.1.4.37.1.1 IMetadataWebServiceApplication_SetServiceSettings_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/SetServiceSettings
```

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

3.1.4.37.1.2 IMetadataWebServiceApplication_SetServiceSettings_OutputMessage

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

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

3.1.4.37.2 Elements

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

3.1.4.37.2.1 SetServiceSettings

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

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

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="1" name="rawPartitionId"
      xmlns:q67="http://schemas.microsoft.com/2003/10/Serialization/" type="q67:guid"/>
    <xs:element minOccurs="1" name="settingsXml" nillable="false" type="xs:string"/>
    <xs:element minOccurs="1" name="unpublishAllPackages" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

settingsXml: Settings for the **term store**, which MUST conform to the schema of the **ServiceSettingsSettingsXmlDoc** complex type (section [2.2.4.41](#)).

unpublishAllPackages: If the hub has not been changed as part of this operation by the **settingsXML** element, this value is ignored. If the hub has been changed and this value is "true", the protocol server MUST unpublish all **content type packages** for the former hub. If this value is "false", it MUST be ignored.

3.1.4.37.2 SetServiceSettingsResponse

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

```

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

```

3.1.4.37.3 Complex Types

None.

3.1.4.37.4 Simple Types

None.

3.1.4.37.5 Attributes

None.

3.1.4.37.6 Groups

None.

3.1.4.37.7 Attribute Groups

None.

3.1.4.38 UnpublishPackage

This operation is called to unpublish a **content type package** from the specified **term store partition**.

```

<wsdl:operation name="UnpublishPackage">

```

```

    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UnpublishPackage"
message="tns:IMetadataWebServiceApplication_UnpublishPackage_InputMessage"/>
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UnpublishPackageResponse"
message="tns:IMetadataWebServiceApplication_UnpublishPackage_OutputMessage"/>
</wsdl:operation>

```

The protocol server removes the specified content type package from the list of available content type packages for the term store partition. If the specified content type package does not exist, the protocol server does not do anything.

3.1.4.38.1 Messages

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

3.1.4.38.1.1 IMetadataWebServiceApplication_UnpublishPackage_InputMessage

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

The **SOAP action** value is:

```

http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UnpublishPackage

```

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

3.1.4.38.1.2 IMetadataWebServiceApplication_UnpublishPackage_OutputMessage

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

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

3.1.4.38.2 Elements

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

3.1.4.38.2.1 UnpublishPackage

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

```

<xs:element name="UnpublishPackage">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q68="http://schemas.microsoft.com/2003/10/Serialization/" type="q68:guid"/>
      <xs:element minOccurs="1" name="packageId" nillable="false" type="ContentTypeId"/>
      <xs:element minOccurs="1" name="packageType"
xmlns:q69="http://schemas.microsoft.com/2003/10/Serialization/" type="q69:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

packageId: The identifier of the **content type**.

packageType: Reserved. The value MUST be "B4AD3A44-D934-4C91-8D1F-463ACEADE443".

3.1.4.38.2 UnpublishPackageResponse

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

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

3.1.4.38.3 Complex Types

None.

3.1.4.38.4 Simple Types

None.

3.1.4.38.5 Attributes

None.

3.1.4.38.6 Groups

None.

3.1.4.38.7 Attribute Groups

None.

3.1.4.39 UploadStatus

This operation is called to add an entry to the content type publication log.

```
<wsdl:operation name="UploadStatus">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UploadStatus" message="tns:IMetadataWebServiceApplication_UploadStatus_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UploadStatusResponse"
    message="tns:IMetadataWebServiceApplication_UploadStatus_OutputMessage"/>
</wsdl:operation>
```

The protocol server adds the entry to the content type publication log.

3.1.4.39.1 Messages

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

3.1.4.39.1.1 IMetadataWebServiceApplication_UploadStatus_InputMessage

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

The **SOAP action** value is:

http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UploadStatus

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

3.1.4.39.1.2 IMetadataWebServiceApplication_UploadStatus_OutputMessage

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

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

3.1.4.39.2 Elements

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

3.1.4.39.2.1 UploadStatus

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

```
<xs:element name="UploadStatus">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q78="http://schemas.microsoft.com/2003/10/Serialization/" type="q78:guid"/>
      <xs:element minOccurs="1" name="siteUrl" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="objectName" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="status"
        xmlns:q79="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentTypesync" type="q79:SyndicationStatus"/>
      <xs:element minOccurs="1" name="message" nillable="false" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

siteUrl: The **URL** of the **site collection** for which the log entry is generated. It MUST be less than or equal to 2000 characters in length.

objectName: The name of the object for which the log entry is generated.

status: The name of the content type publication stage at which the log entry is generated.

message: The content of the log entry.

3.1.4.39.2.2 UploadStatusResponse

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

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

3.1.4.39.3 Complex Types

None.

3.1.4.39.4 Simple Types

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

3.1.4.39.4.1 SyndicationStatus

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentTypeSync>

This type indicates the name of a content type publication stage and is defined as follows.

```
<xs:simpleType name="SyndicationStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Publishing"/>
    <xs:enumeration value="TimeStampRetrieving"/>
    <xs:enumeration value="PackageRetrieving"/>
    <xs:enumeration value="Importing"/>
    <xs:enumeration value="ImportingContentType"/>
    <xs:enumeration value="ImportingNonContentType"/>
    <xs:enumeration value="ContentTypeUnsharing"/>
    <xs:enumeration value="PreCheck"/>
    <xs:enumeration value="SiteRefreshing"/>
    <xs:enumeration value="WorkflowImporting"/>
    <xs:enumeration value="ContentTypePolicyDirtyBagUpdating"/>
    <xs:enumeration value="ContentTypeSealing"/>
    <xs:enumeration value="TimeStampUpdating"/>
    <xs:enumeration value="LogTrimming"/>
    <xs:enumeration value="LogSynchronizing"/>
    <xs:enumeration value="Unpublishing"/>
    <xs:enumeration value="Failed"/>
    <xs:enumeration value="Succeeded"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **SyndicationStatus**.

Value	Meaning
None	Not started yet.
Publishing	Publishing a content type .
TimeStampRetrieving	Retrieving the time stamp from a content type subscriber site.
PackageRetrieving	Retrieving a content type package from term store .
Importing	Importing a package on a content type subscriber site.
ImportingContentType	Importing a content type package on a content type subscriber site.
ImportingNonContentType	Reserved. MUST NOT be used.
ContentTypeUnsharing	Marking a content type as not published to a content type subscriber site.
PreCheck	Checking prerequisites before importing on a content type subscriber site.
SiteRefreshing	Retrieving a content type subscriber site.
WorkflowImporting	Importing the workflows associated with a content type on a content type subscriber site.
ContentTypePolicyDirtyBagUpdating	Updating the policy dirty bag of a content type on a content type

Value	Meaning
	subscriber site.
ContentTypeSealing	Making a content type read only.
TimeStampUpdating	Updating the time stamp on a content type subscriber site.
LogTrimming	Trimming the content type publishing log list to prevent it from getting too big.
LogSynchronizing	Retrieving the content type publication log.
Unpublishing	Unpublishing a content type.
Failed	Content type publication has failed to complete.
Succeeded	Content type publication has succeeded.

3.1.4.39.5 Attributes

None.

3.1.4.39.6 Groups

None.

3.1.4.39.7 Attribute Groups

None.

3.1.4.40 Write

This operation is called to perform write operations against a **term store partition**.

```
<wsdl:operation name="Write">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
    " message="tns:IMetadataWebServiceApplication_Write_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
    Response" message="tns:IMetadataWebServiceApplication_Write_OutputMessage"/>
</wsdl:operation>
```

The protocol server first performs implementation specific authorization to determine whether the requested write operations can be performed; if it determines that the caller does not have permissions, it MUST return an error.

Otherwise, the protocol server performs the requested write operations in sequence inside a transaction against the term store partition. If all the operations succeed, then the operation finishes successfully and the transaction is committed. If there is a failure during the processing of the write operations then the transaction is rolled back, the specified write operations are not persisted and the protocol server MUST send a **SOAP fault** message.

3.1.4.40.1 Messages

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

3.1.4.40.1.1 IMetadataWebServiceApplication_Write_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
```

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

3.1.4.40.1.2 IMetadataWebServiceApplication_Write_OutputMessage

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

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

3.1.4.40.2 Elements

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

3.1.4.40.2.1 Write

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

```
<xs:element name="Write">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="data" nillable="false" type="WriteRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

data: The input collection of write operations to execute on the **term store partition**.

3.1.4.40.2.2 WriteResponse

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

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

3.1.4.40.3 Complex Types

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

3.1.4.40.3.1 WriteRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

The requested write operations for the **term store partition**. Each child element MUST have a **CommandAction** (section [2.2.5.2](#)) or **CommandActionBasic a5** attribute (section [2.2.5.3](#)) that specifies the type of write operation that is performed for that term store object and the other attributes and child elements are used as the detailed input parameters to perform that action. This operation is defined as follows.

```

<xs:complexType name="WriteRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="Partition"
type="WritePartitionIndicator"/>
          <xs:choice minOccurs="0" maxOccurs="unbounded">
            <xs:element name="G" type="SerializedECMGroupTableRow"/>
            <xs:element name="TS" type="SerializedECMTermSetTableRow"/>
            <xs:element name="T" type="SerializedECMTermTableRowForWrite"/>
          </xs:choice>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="L"
type="SerializedECMLanguageTableRow"/>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="P"
type="SerializedECMPermissionTableRow"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

Root: Root input element.

Root.Partition: The term store partition.

Root.G: Data specifying Add, Edit or Delete operations on **term set groups**.

Root.TS: Data specifying Add, Edit, Delete, Copy or Move operations on **term sets**.

Root.T: Data specifying Add, Edit, Delete, Copy or Merge operations on **terms** and also specifying operations on related **term labels**, descriptions, properties, and the term sets of which the term is a member.

Root.L: Data specifying Add, Edit, or Delete operations on languages.

Root.P: Data specifying Add, Edit, or Delete operations on permissions.

3.1.4.40.3.2 WritePartitionIndicator

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

An identifier of a **term store partition** defined as follows.

```

<xs:complexType name="WritePartitionIndicator">
  <xs:attribute name="Id" type="ser:guid" use="required"/>
</xs:complexType>

```

Id: The term store **partition identifier** for the current write operations.

3.1.4.40.3.3 SerializedECMTermTableRowForWrite

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Data specifying Add, Edit, Delete, Copy, or Merge operations on **terms** and also specifying operations on related **term labels**, descriptions, properties, and the **term sets** of which the term is a member. Each child element MUST have a **CommandAction** (section 2.2.5.2) or **CommandActionBasic a5** attribute (section 2.2.5.3) that specifies the type of write operation that is performed for the **term store** object related to this term and the other attributes and child elements that are used as the

input data parameters to update properties of term store objects when performing the action. This is defined as follows.

```
<xs:complexType name="SerializedECMTermTableRowForWrite">
  <xs:sequence minOccurs="0">
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element name="TL" type="SerializedECMTermLabelTableRowForWrite"/>
      <xs:element name="TD" type="SerializedECMTermDescriptionTableRowForWrite"/>
      <xs:element name="TP" type="SerializedECMTermPropertyTableRowForWrite"/>
      <xs:element name="TM" type="SerializedECMTermSetMembershipTableRowForWrite"/>
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="a6" type="InternalIdentifier" use="required"/>
  <xs:attribute name="a0" type="ser:guid" use="required"/>
  <xs:attribute name="a8" type="xs:dateTime" use="optional"/>
  <xs:attribute name="a9" type="ser:guid" use="optional"/>
  <xs:attribute name="a14" type="xs:string" use="optional"/>
  <xs:attribute name="a19" type="xs:dateTime" use="optional"/>
  <xs:attribute name="a20" type="xs:int" use="optional"/>
  <xs:attribute name="a21" type="xs:boolean" use="optional"/>
  <xs:attribute name="a22" type="xs:boolean" use="optional"/>
  <xs:attribute name="a17" type="xs:boolean" use="optional"/>
  <xs:attribute name="a67" type="xs:string" use="optional"/>
  <xs:attribute name="a24" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a25" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a26" type="xs:boolean" use="optional"/>
  <xs:attribute name="a74" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a27" type="xs:boolean" use="optional"/>
  <xs:attribute name="a28" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a10" type="InternalIdentifier" use="optional"/>
  <xs:attribute name="a30" type="xs:boolean" use="optional"/>
  <xs:attribute name="a55" type="xs:string" use="optional"/>
  <xs:attribute name="a5" type="CommandAction" use="required"/>
</xs:complexType>
```

TL: Data specifying write operations on the term labels for a term.

TD: Data specifying write operations on the descriptions for a term.

TP: Data specifying write operations on the properties of the current term.

TM: Data specifying write operations that affect the term sets of which the term is a member.

a6: The **internal identifier** of the term. If the value of **a5** is "4" (Copy), the value of **a6** MUST be "-1", indicating that the value is provided by the protocol server.

a0: The identifier of the term store **partition** to which the term belongs.

a8: The **UTC** time of the last modification to the term object.

a9: The identifier of the term.

a14: The name of the owner of the term.

a19: Reserved. The value MUST be ignored.

a20: Reserved. The value MUST be zero.

a21: Specifies whether the term is deprecated.

a22: Specifies whether the term is deleted.

a17: Specifies if the term is available for tagging when used in the context of the given term set for the members of the term set.

a67: A list of term identifiers, separated by a colon (:), which defines a fixed order that the terms that are **children** appear for the members of the term set.

a24: The internal identifier of the term set containing the term.

a25: The internal identifier of the parent term of the current term in the term set in the members of the term set. If the term is at the root of the term set, this MUST be zero.

a26: Whether the term is a **source term**. Note that if a term belongs to only one term set, that instance is considered to be the source term.

a74: The internal identifier of the source term set to which this term is pinned. If the term is not pinned to any term set, this MUST be NULL. <21>

a27: This MUST be "true" if any of the write operations include changes to any of the default term labels for this term. Otherwise this attribute MUST be absent.

a28: The internal identifier of the term into which this term is merged. If the value of **a5** is "5" (Merge), **a28** MUST be present. Otherwise, **a28** MUST be absent.

a10: The internal identifier of the term from which this is copied. If the value of **a5** is "4" (Copy), **a10** MUST be present. Otherwise, **a10** MUST be absent. This value MUST NOT refer to a term in the keyword term set.

a30: Reserved. The value MUST be "true".

a55: Details of the term update. It MUST be the same type as **Data.E** in **ChangeDataForUpdateTerm** (section 2.2.4.43). <22>

a5: A **CommandAction** (section 2.2.5.2) specifying what kind of write operation is performed on this term. The value MUST NOT be "3" (Move).

If the value of **a5** is "2" (Delete) or "5" (Merge), the **a14**, **a19**, **a20**, **a21**, **a22**, **a17**, **a67**, **a25**, **a26**, **a27**, **a10**, **a30** attributes and the **TD**, **TL**, **TP**, and **TM** child elements MUST all be absent.

If the value of **a5** is "5" (Merge), **a26** MUST NOT be "false", and the **a6** and **a28** values MUST NOT refer to a member of the term set of keywords or the term set of **orphaned terms**.

CommandAction operations here represent stored procedures.

CommandAction	Stored procedure
0 (Add)	proc_ECM_CreateTerm
1 (Edit)	proc_ECM_UpdateTerm
2 (Delete)	proc_ECM_DeleteTerm
3 (Move)	<i>unused</i>
4 (Copy)	proc_ECM_CreateTerm
5 (Merge)	proc_ECM_MergeTerm

These actions only loosely correspond to conceptual operations such as "deleting" or "moving" a term. Some examples follow:

There is a conceptual rule for **reused terms** that the source term instance cannot be removed without first adding its term to the orphaned terms term set. In the protocol, this is expressed using a pair of **Root.T** elements. The first is an Edit action whose **TM** element adds the term to the orphaned terms term set, with **a25** set to "true" in both **Root.T** and **TM** elements. The second **Root.T** element is a Delete action that removes the old source term.

A similar pair of operations is used when the new source term is designated. The first **Root.T** element uses the Edit action to specify the new source term instance, with **a25** set to "true" in both **Root.T** and **TM** elements. The second **Root.T** element uses the Delete action to remove the term from the orphaned terms term set.

3.1.4.40.3.4 SerializedECMTermLabelTableRowForWrite

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Data for **term label**. This element specifies a write operation on a term label and has the attributes specified as follows and the attributes of the base type **SerializedECMTermLabelTableRowBase** (section [2.2.4.32](#)). This is defined as follows.

```
<xs:complexType name="SerializedECMTermLabelTableRowForWrite">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermLabelTableRowBase">
      <xs:attribute name="a5" type="CommandActionBasic" use="required"/>
      <xs:attribute name="a35" type="xs:boolean" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

a5: A **CommandActionBasic** (section [2.2.5.3](#)) specifying what kind of write operation is performed on this term label. The value MUST NOT be "1" (Edit).

If the value is "2" (Delete), the **a31** and **a35** attributes MUST be absent.

a35: If the **term** for this term label is also a member of the keyword term set and the **a31** attribute is "true", this attribute MUST be "true". Otherwise, it MUST be absent.

3.1.4.40.3.5 SerializedECMTermDescriptionTableRowForWrite

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A write operation on a description of a **term** defined as follows.

```
<xs:complexType name="SerializedECMTermDescriptionTableRowForWrite">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermDescriptionTableRowBase">
      <xs:attribute name="a5" type="CommandActionBasic" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

a5: A **CommandActionBasic** (section [2.2.5.3](#)) specifying what kind of write operation will be performed on this description.

3.1.4.40.3.6 SerializedECMTermPropertyTableRowForWrite

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

A write operation on a property of a **term** defined as follows.

```
<xs:complexType name="SerializedECMTermPropertyTableRowForWrite">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermPropertyTableRowBase">
      <xs:attribute name="a5" type="CommandActionBasic" use="required"/>
      <xs:attribute name="a24" type="InternalIdentifier" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

a5: A **CommandActionBasic** (section [2.2.5.3](#)) specifying what kind of write operation will be performed on this property.

If the value is 2 (Delete), then the **a38** attribute MUST be absent.

a24: The **internal identifier** of a **term set** of which the term is a member. [<23>](#)

3.1.4.40.3.7 SerializedECMTermSetMembershipTableRowForWrite

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

A write operation on the members of a term set is defined as follows.

```
<xs:complexType name="SerializedECMTermSetMembershipTableRowForWrite">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermSetMembershipTableRowBase">
      <xs:attribute name="a5" type="CommandAction" use="required"/>
      <xs:attribute name="a46" type="InternalIdentifier" use="optional"/>
      <xs:attribute name="a47" type="InternalIdentifier" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

a5: A **CommandAction** (section [2.2.5.2](#)) specifying what kind of write operation is performed on the members of the term set. The value MUST NOT be "4" (Copy) or "5" (Merge).

If the value is "2" (Delete), the **a17**, **a26**, **a67**, **a46** and **a47** attributes MUST be absent.

a46: The **internal identifier** of the **term set** from which this term set membership is moved. If the value of **a5** is "3" (Move), **a46** MUST be present. Otherwise, **a46** MUST be absent.

a47: The internal identifier of the parent **term** from which this term set membership is moved. If the value of **a5** is "3" (Move), **a47** MUST be present. Otherwise, **a47** MUST be absent.

3.1.4.40.4 Simple Types

None.

3.1.4.40.5 Attributes

None.

3.1.4.40.6 Groups

None.

3.1.4.40.7 Attribute Groups

None.

3.1.4.41 WriteClearUsedTerms

This operation is called to remove the **term** usage information for the specified **site collection**.

```

<wsdl:operation name="WriteClearUsedTerms">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
ClearUsedTerms"
message="tns:IMetadataWebServiceApplication_WriteClearUsedTerms_InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
ClearUsedTermsResponse"
message="tns:IMetadataWebServiceApplication_WriteClearUsedTerms_OutputMessage"/>
</wsdl:operation>

```

The protocol server removes the term usage information for the specified site collection.

3.1.4.41.1 Messages

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

3.1.4.41.1.1 IMetadataWebServiceApplication_WriteClearUsedTerms_InputMessage

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

The **SOAP action** value is:

```

http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteClearUsedTerm
s

```

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

3.1.4.41.1.2 IMetadataWebServiceApplication_WriteClearUsedTerms_OutputMessage

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

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

3.1.4.41.2 Elements

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

3.1.4.41.2.1 WriteClearUsedTerms

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

```

<xs:element name="WriteClearUsedTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q59="http://schemas.microsoft.com/2003/10/Serialization/" type="q59:guid"/>
      <xs:element minOccurs="1" name="webAppId"
xmlns:q60="http://schemas.microsoft.com/2003/10/Serialization/" type="q60:guid"/>
      <xs:element minOccurs="1" name="contentDatabaseId"
xmlns:q61="http://schemas.microsoft.com/2003/10/Serialization/" type="q61:guid"/>
      <xs:element minOccurs="1" name="siteId"
xmlns:q62="http://schemas.microsoft.com/2003/10/Serialization/" type="q62:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

webAppId: **Web application** identifier for Web application that contains the **site collection** in which the specified **term** is used.

contentDatabaseId: **Content database** identifier for the site collection in which the specified term is used.

siteId: The identifier of a site collection.

3.1.4.41.2 WriteClearUsedTermsResponse

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

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

3.1.4.41.3 Complex Types

None.

3.1.4.41.4 Simple Types

None.

3.1.4.41.5 Attributes

None.

3.1.4.41.6 Groups

None.

3.1.4.41.7 Attribute Groups

None.

3.1.4.42 WriteUsedTerm

Adds term usage information indicating that the specified **term** has been used in the specified **site collection**.

```
<wsdl:operation name="WriteUsedTerm">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteUsedTerm" message="tns:IMetadataWebServiceApplication_WriteUsedTerm_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteUsedTermResponse" message="tns:IMetadataWebServiceApplication_WriteUsedTerm_OutputMessage"/>
</wsdl:operation>
```

The protocol server adds term usage information indicating that the specified term has been used in the specified site collection.

3.1.4.42.1 Messages

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

3.1.4.42.1.1 IMetadataWebServiceApplication_WriteUsedTerm_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteUsedTerm
```

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

3.1.4.42.1.2 IMetadataWebServiceApplication_WriteUsedTerm_OutputMessage

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

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

3.1.4.42.2 Elements

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

3.1.4.42.2.1 WriteUsedTerm

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

```
<xs:element name="WriteUsedTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q47="http://schemas.microsoft.com/2003/10/Serialization/" type="q47:guid"/>
      <xs:element minOccurs="1" name="webAppId"
        xmlns:q48="http://schemas.microsoft.com/2003/10/Serialization/" type="q48:guid"/>
      <xs:element minOccurs="1" name="contentDatabaseId"
        xmlns:q49="http://schemas.microsoft.com/2003/10/Serialization/" type="q49:guid"/>
      <xs:element minOccurs="1" name="siteId"
        xmlns:q50="http://schemas.microsoft.com/2003/10/Serialization/" type="q50:guid"/>
      <xs:element minOccurs="1" name="termSetId"
        xmlns:q51="http://schemas.microsoft.com/2003/10/Serialization/" type="q51:guid"/>
      <xs:element minOccurs="1" name="termId"
        xmlns:q52="http://schemas.microsoft.com/2003/10/Serialization/" type="q52:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

webAppId: **Web application** identifier for a Web application that contains the **site collection** in which the specified **term** is used.

contentDatabaseId: **Content database** identifier for the site collection in which the specified term is used.

siteId: Site collection identifier for the site collection in which the specified term is used.

termSetId: **Term set** identifier for term set to which the specified term belongs.

termId: Term identifier.

3.1.4.42.2 WriteUsedTermResponse

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

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

3.1.4.42.3 Complex Types

None.

3.1.4.42.4 Simple Types

None.

3.1.4.42.5 Attributes

None.

3.1.4.42.6 Groups

None.

3.1.4.42.7 Attribute Groups

None.

3.1.4.43 WriteUsedTerms

Adds term usage information indicating that the specified **terms** have been used in the specified **site collection**.

```
<wsdl:operation name="WriteUsedTerms">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteUsedTerms" message="tns:IMetadataWebServiceApplication_WriteUsedTerms_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteUsedTermsResponse"
    message="tns:IMetadataWebServiceApplication_WriteUsedTerms_OutputMessage"/>
</wsdl:operation>
```

The protocol server adds term usage information indicating that the specified terms have been used in the specified site collection.

3.1.4.43.1 Messages

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

3.1.4.43.1.1 IMetadataWebServiceApplication_WriteUsedTerms_InputMessage

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

The **SOAP action** value is:

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

3.1.4.43.1.2 IMetadataWebServiceApplication_WriteUsedTerms_OutputMessage

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

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

3.1.4.43.2 Elements

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

3.1.4.43.2.1 WriteUsedTerms

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

```
<xs:element name="WriteUsedTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q53="http://schemas.microsoft.com/2003/10/Serialization/" type="q53:guid"/>
      <xs:element minOccurs="1" name="webAppId"
        xmlns:q54="http://schemas.microsoft.com/2003/10/Serialization/" type="q54:guid"/>
      <xs:element minOccurs="1" name="contentDatabaseId"
        xmlns:q55="http://schemas.microsoft.com/2003/10/Serialization/" type="q55:guid"/>
      <xs:element minOccurs="1" name="siteId"
        xmlns:q56="http://schemas.microsoft.com/2003/10/Serialization/" type="q56:guid"/>
      <xs:element minOccurs="1" name="termSetIds" nillable="false"
        xmlns:q57="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q57:ArrayOfguid"/>
      <xs:element minOccurs="1" name="termIds" nillable="false"
        xmlns:q58="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q58:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: The **term store partition identifier**. This value MUST NOT be NULL or empty.

webAppId: **Web application** identifier for the Web application that contains the **site collection** in which the specified **terms** are used.

contentDatabaseId: **Content database** identifier for the site collection in which the specified terms are used.

siteId: Site collection identifier for the site collection in which the specified terms are used.

termSetIds: A list of **term set** identifiers. This list MUST have the same number of members as the **termIds** list, and a term set in this **termSetIds** list MUST contain the corresponding term in the **termIds** list having the same index.

termIds: A list of term identifiers.

3.1.4.43.2.2 WriteUsedTermsResponse

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

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

3.1.4.43.3 Complex Types

None.

3.1.4.43.4 Simple Types

None.

3.1.4.43.5 Attributes

None.

3.1.4.43.6 Groups

None.

3.1.4.43.7 Attribute Groups

None.

3.1.4.44 GetChangedTermSets

Returns all **term sets** that have changed since a specific time. <24>

```
<wsdl:operation name="GetChangedTermSets">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangedTermSets" message="tns:IMetadataWebServiceApplication_GetChangedTermSets_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangedTermSetsResponse"
    message="tns:IMetadataWebServiceApplication_GetChangedTermSets_OutputMessage"/>
</wsdl:operation>
```

The change could be to a **term** in the term set or to the term set itself. This call spans all **partitions** in the **term store**.

3.1.4.44.1 Messages

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

3.1.4.44.1.1 IMetadataWebServiceApplication_GetChangedTermSets_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangedTermSets
```

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

3.1.4.44.1.2 IMetadataWebServiceApplication_GetChangedTermSets_OutputMessage

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

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

3.1.4.44.2 Elements

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

3.1.4.44.2.1 GetChangedTermSets

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

```
<xs:element name="GetChangedTermSets">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="propertyName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

sinceTime: The time after which changed term sets are returned.

propertyName: A filter to apply on the term sets returned. If the **propertyName** is not NULL, the returned term set MUST have a custom property defined with the name that matches the **propertyName** passed in. This comparison MUST be a case-insensitive match, but MUST match all characters in the string.

propertyValue: A filter to apply on the term sets returned. If the **propertyValue** is not NULL, the returned term sets MUST have a custom property defined with a value that matches the **propertyValue** passed in. This comparison MUST be a case-insensitive match, but MUST match all characters in the string.

3.1.4.44.2.2 GetChangedTermSetsResponse

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

```
<xs:element name="GetChangedTermSetsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangedTermSetsResult" nillable="true"
type="GetChangedTermSetsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChangedTermSetsResult: A collection of term sets that have changed since the specified time.

3.1.4.44.3 Complex Types

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

3.1.4.44.3.1 GetChangedTermSetsRoot

Namespace: <http://schemas.microsoft.com/sharepoint/taxonomy/soap/>

```

<xs:complexType name="GetChangedTermSetsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="CL">
            <xs:complexType>
              <xs:attribute name="a0" type="ser:guid" use="required"/>
              <xs:attribute name="a49" type="ser:guid" use="required"/>
              <xs:attribute name="a73" type="xs:dateTime" use="required"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

Root: Root element.

Root.CL: Details of a changed term set.

Root.CL.a0: The **term store partition identifier**.

Root.CL.a49: The identifier of a term set.

Root.CL.a73: The most recent change to any termset. This value can be used for subsequent calls to **GetChangedTermSets**.

3.1.4.44.4 Simple Types

None.

3.1.4.44.5 Attributes

None.

3.1.4.44.6 Groups

None.

3.1.4.44.7 Attribute Groups

None.

3.1.4.45 SearchTermSetsByProperty

This operation is called to find **term sets** that have properties that match the search criteria. [<25>](#)

```

<wsdl:operation name="SearchTermSetsByProperty">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetsByProperty"
    message="tns:IMetadataWebServiceApplication_SearchTermSetsByProperty_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetsByPropertyResponse"
    message="tns:IMetadataWebServiceApplication_SearchTermSetsByProperty_OutputMessage"/>
</wsdl:operation>

```

If the **term set group** is not specified, the protocol server performs the specified case insensitive search in the **term store partition**. If the term set group is specified, the search is scoped to the term set group. If the term set group does not exist in the term store partition, then the protocol server MUST return zero term sets.

3.1.4.45.1 Messages

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

3.1.4.45.1.1 IMetadataWebServiceApplication_SearchTermSetsByProperty_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetsByProperty
```

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

3.1.4.45.1.2 IMetadataWebServiceApplication_SearchTermSetsByProperty_OutputMessage

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

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

3.1.4.45.2 Elements

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

3.1.4.45.2.1 SearchTermSetsByProperty

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

```
<xs:element name="SearchTermSetsByProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q41="http://schemas.microsoft.com/2003/10/Serialization/" type="q41:guid"/>
      <xs:element minOccurs="0" name="groupId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="1" name="propertyName" nillable="false" type="xs:string"/>
      <xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="stringMatchOption"
        xmlns:q42="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
        type="q42:StringMatchOption"/>
      <xs:element minOccurs="1" name="resultCollectionSize" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

groupId: A **term set group internal identifier** used to restrict the scope of the search.

propertyName: The property name to search for. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

propertyValue: The property value to search for. The value MUST NOT contain tabs or line breaks. It MUST be less than or equal to 10240 characters in length.

stringMatchOption: The type of string match to perform on the **propertyValue** value. If this value is **StringMatchOption.ExactMatch** (section [2.2.5.11](#)), the value MUST exactly match the search criteria. If this value is **StringMatchOption.StartsWith** then the value MUST begin with the search criteria.

resultCollectionSize: The maximum number of **term sets** to retrieve. This parameter is intended to limit the performance impact for large searches; the order is undefined. This value MUST be zero or greater.

3.1.4.45.2.2 SearchTermSetsByPropertyResponse

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

```
<xs:element name="SearchTermSetsByPropertyResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchTermSetsByPropertyResult" nillable="true"
type="GetGroupsAndTermSetsRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SearchTermSetsByPropertyResult: A **GetGroupsAndTermSetsRoot** element (section [2.2.4.14](#)) that contains information about the **term sets** with properties matching the search criteria.

3.1.4.45.3 Complex Types

None.

3.1.4.45.4 Simple Types

None.

3.1.4.45.5 Attributes

None.

3.1.4.45.6 Groups

None.

3.1.4.45.7 Attribute Groups

None.

3.1.4.46 SearchAllTermSetsByProperty

This operation is called to find **term set** properties that have properties that match the search criteria across all the tenants. <26>

```
<wsdl:operation name="SearchAllTermSetsByProperty">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
    AllTermSetsByProperty"
    message="tns:IMetadataWebServiceApplication SearchAllTermSetsByProperty InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
    AllTermSetsByPropertyResponse"
    message="tns:IMetadataWebServiceApplication_SearchAllTermSetsByProperty_OutputMessage"/>
</wsdl:operation>
```

The protocol server MUST find all the term sets that match the search criteria and MUST return an ordered collection of the properties of those term sets with the term sets ordered by the term set Id.

If the protocol server finds no term sets matching the search criteria, then the protocol server MUST return zero properties.

If the **propertyValue** is null, then the protocol server MUST find all the term sets that contain the given **propertyName** and MUST return all the properties of those term sets.

3.1.4.46.1 Messages

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

3.1.4.46.1.1 IMetadataWebServiceApplication_SearchAllTermSetsByProperty_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchAllTermSetsBy
Property
```

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

3.1.4.46.1.2 IMetadataWebServiceApplication_SearchAllTermSetsByProperty_OutputMessage

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

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

3.1.4.46.2 Elements

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

3.1.4.46.2.1 SearchAllTermSetsByProperty

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

```
<xs:element name="SearchAllTermSetsByProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="propertyName" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="propertyValue" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="resultSize" type="xs:int"/>
      <xs:element minOccurs="1" name="startId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

propertyName: The property name to search for. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

propertyValue: The property value to search for. The value MUST NOT contain tab or line break. It MUST be less than or equal to 10240 characters in length.

resultSize: The maximum number of **term sets** to retrieve. This parameter is intended to limit the performance impact for large searches; the order is undefined. This value MUST be zero or greater.

startId: All the term set properties returned MUST be from term sets that match the search criteria and have the term set Id greater than or equal to the specified startId.

3.1.4.46.2.2 SearchAllTermSetsByPropertyResponse

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

```
<xs:element name="SearchAllTermSetsByPropertyResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchAllTermSetsByPropertyResult" nillable="true"
        type="SearchAllTermSetsByPropertyRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SearchAllTermSetsByPropertyResult: A **SearchAllTermSetsByPropertyRoot** element (section [3.1.4.46.3.1](#)) that contains information about the **term sets** with property matching the search criteria.

3.1.4.46.3 Complex Types

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

3.1.4.46.3.1 SearchAllTermSetsByPropertyRoot

Namespace: http://schemas.microsoft.com/sharepoint/taxonomy/soap/

Information about the properties in a **term set**.

```
<xs:complexType name="SearchAllTermSetsByPropertyRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TP">
            <xs:complexType>
              <xs:attribute name="a0" type="ser:guid" use="required"/>
              <xs:attribute name="a24" type="xs:int" use="required"/>
              <xs:attribute name="a37" type="xs:string" use="required"/>
              <xs:attribute name="a38" type="xs:string" use="required"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Root: Root element.

Root.TP: A property of term set.

Root.TP.a0: The **term store partition identifier**.

Root.TP.a24: The term set identifier.

Root.TP.a37: Name of the property.

Root.TP.a38: Value of the property.

3.1.4.46.4 Simple Types

None.

3.1.4.46.5 Attributes

None.

3.1.4.46.6 Groups

None.

3.1.4.46.7 Attribute Groups

None.

3.1.4.47 ExportPartitionData2

This operation is called to export the main data objects (**terms**, **term sets**, **term set groups**, and so on) from a **term store partition**.[<27>](#) The change log is not exported.

```

<wsdl:operation name="ExportPartitionData2">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData2"
message="tns:IMetadataWebServiceApplication_ExportPartitionData2_InputMessage"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData2Response"
message="tns:IMetadataWebServiceApplication_ExportPartitionData2_OutputMessage"/>
</wsdl:operation>

```

If the user does not have implementation-specific rights to store the file at the specified file path, the protocol server **MUST** send a **SOAP fault** message containing a **System.Exception**. Otherwise, the protocol server exports data from the specified term store partition and saves it in an implementation specific **cabinet (.cab) file** at the specified file path.

3.1.4.47.1 Messages

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

3.1.4.47.1.1 IMetadataWebServiceApplication_ExportPartitionData2_InputMessage

The request **WSDL message** for the **ExportPartitionData2 WSDL operation**.

The **SOAP action** value is:

```

http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData2

```

The **SOAP body** contains the **ExportPartitionData2** element.

3.1.4.47.1.2 IMetadataWebServiceApplication_ExportPartitionData2_OutputMessage

The response **WSDL message** for the **ExportPartitionData2 WSDL operation**.

The **SOAP body** contains the **ExportPartitionData2Response** element.

3.1.4.47.2 Elements

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

3.1.4.47.2.1 ExportPartitionData2

The input data for the **ExportPartitionData2 WSDL operation**.

```

<xs:element name="ExportPartitionData2">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
xmlns:q81="http://schemas.microsoft.com/2003/10/Serialization/" type="q81:guid"/>
      <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="noCompression" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

filePath: UNC path to the file where the **term store partition** data is to be stored.

noCompression: Whether the exported data is compressed or not.

3.1.4.47.2 ExportPartitionData2Response

The result data for the **ExportPartitionData2 WSDL operation**.

```
<xs:element name="ExportPartitionData2Response">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.47.3 Complex Types

None.

3.1.4.47.4 Simple Types

None.

3.1.4.47.5 Attributes

None.

3.1.4.47.6 Groups

None.

3.1.4.47.7 Attribute Groups

None.

3.1.4.48 GetChanges2

This operation is called to retrieve change log entries in the specified **term store partition** or all term store partitions occurring after a specified time. <28>

```
<wsdl:operation name="GetChanges2">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges2"
    message="tns:IMetadataWebServiceApplication_GetChanges2_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges2Response"
    message="tns:IMetadataWebServiceApplication_GetChanges2_OutputMessage"/>
</wsdl:operation>
```

The change log entries are filtered to those that occurred after **sinceTime**.

If parameter **rawPartitionId** is not NULL, the change log entries pertain to the specified term store partition are returned. Otherwise, the entries from all term store partitions are returned.

If parameter **termSetId** is not NULL, the entries that pertain to the specified **term set** are returned. Otherwise, if parameter **groupId** is not NULL, the entries that pertain to the specified **term set group** are returned. Otherwise, all are returned.

The entries returned MUST be ordered by the time the change occurred in ascending order. Additionally, if either **changedItemType** or **changedOperationType** are specified and not set to 0 (Unknown), the entries are filtered to those that apply to the specified type of term store object or type of write operation, respectively.

3.1.4.48.1 Messages

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

3.1.4.48.1.1 IMetadataWebServiceApplication_GetChanges2_InputMessage

The request **WSDL message** for the **GetChanges2 WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges2
```

The **SOAP body** contains the **GetChanges2** element.

3.1.4.48.1.2 IMetadataWebServiceApplication_GetChanges2_OutputMessage

The response **WSDL message** for the **GetChanges2 WSDL operation**.

The **SOAP body** contains the **GetChanges2Response** element.

3.1.4.48.2 Elements

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

3.1.4.48.2.1 GetChanges2

The input data for the **GetChanges2 WSDL operation**.

```
<xs:element name="GetChanges2">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="rawPartitionId" nillable="true"
        xmlns:q28="http://schemas.microsoft.com/2003/10/Serialization/" type="q28:guid"/>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="groupId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="changedItemType" nillable="true"
        xmlns:q29="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
        type="q29:ChangedItemType"/>
      <xs:element minOccurs="0" name="changedOperationType" nillable="true"
        xmlns:q30="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
        type="q30:ChangedOperationType"/>
      <xs:element minOccurs="0" name="enforceUpdate" nillable="true" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request.

sinceTime: The date and time value, in **UTC**, after which the changes that occurred are returned.

groupId: Term set group identifier.

termSetId: Term set identifier.

changedItemType: A filter of the type of **term store** object.

changedOperationType: A filter of the type of write operation.

enforceUpdate: Whether to get cached changes or not.

3.1.4.48.2 GetChanges2Response

The result data for the **GetChanges2 WSDL operation**.

```
<xs:element name="GetChanges2Response">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChanges2Result" nillable="true"
type="GetChanges2Result"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetChanges2Result: The change log entries.

3.1.4.48.3 Complex Types

None.

3.1.4.48.4 Simple Types

None.

3.1.4.48.5 Attributes

None.

3.1.4.48.6 Groups

None.

3.1.4.48.7 Attribute Groups

None.

3.1.4.49 GetSessionDataWithTermStoreId

This operation is called to retrieve **session** related data for the specified **term store partition** and also to retrieve the identifier of the term store partition. [<29>](#)

```
<wsdl:operation name="GetSessionDataWithTermStoreId">
  <wsdl:input>
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionDataWithTermStoreId"
message="tns:IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_InputMessage"/>
  <wsdl:output>
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionDataWithTermStoreIdResponse"
message="tns:IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_OutputMessage"/>
</wsdl:operation>
```

If the specified term store partition has not been created, the protocol server creates it and performs implementation-specific initialization. Next, the session-related data for the specified term store partition is returned.

3.1.4.49.1 Messages

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

3.1.4.49.1.1 IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionDataWithTermStoreId
```

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

3.1.4.49.1.2 IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_OutputMessage

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

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

3.1.4.49.2 Elements

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

3.1.4.49.2.1 GetSessionDataWithTermStoreId

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

```
<xs:element name="GetSessionDataWithTermStoreId">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/" type="q2:guid"/>
      <xs:element minOccurs="1" name="lcid" type="LCID"/>
      <xs:element minOccurs="1" name="systemGroupName" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="systemGroupDescription" nillable="false"
        type="xs:string"/>
      <xs:element minOccurs="1" name="keywordsTermsetName" nillable="false"
        type="xs:string"/>
      <xs:element minOccurs="1" name="keywordsTermsetDescription" nillable="false"
        type="xs:string"/>
      <xs:element minOccurs="1" name="orphanedTermsTermsetName" nillable="false"
        type="xs:string"/>
      <xs:element minOccurs="1" name="orphanedTermsTermsetDescription" nillable="false"
        type="xs:string"/>
      <xs:element minOccurs="1" name="hashtagsTermsetName" nillable="false"
        type="xs:string"/>
      <xs:element minOccurs="1" name="hashtagsTermsetDescription" nillable="false"
        type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

lcid: An **LCID** for the default language if the **term store partition** has to be created.

systemGroupName: The name of the system **term set group** if the term store partition has to be created. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

systemGroupDescription: The description of the system term set group if the term store partition has to be created. It MUST be less than or equal to 1000 characters in length.

keywordsTermsetName: The name of the **term set** of keywords if the term store partition has to be created. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

keywordsTermsetDescription: The description of the keyword term set if the term store partition has to be created. It MUST be less than or equal to 1000 characters in length.

orphanedTermsTermsetName: The name of the **orphaned terms** term set if the term store partition has to be created. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)

- Tab

It MUST be less than or equal to 255 characters in length.

orphanedTermsTermsetDescription: The description of the orphaned terms term set if the term store partition has to be created. It MUST be less than or equal to 1000 characters in length.

hashtagsTermsetName: The name of the hash tags term set if the term store partition has to be created. The name MUST NOT contain any of the following characters:

- Semicolon (;)
- Double quote (")
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Ampersand (&)
- Tab

It MUST be less than or equal to 255 characters in length.

hashtagsTermsetDescription: The description of the hash tags term set if the term store partition has to be created. It MUST be less than or equal to 1000 characters in length.

3.1.4.49.2 GetSessionDataWithTermStoreIdResponse

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

```
<xs:element name="GetSessionDataWithTermStoreIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSessionDataWithTermStoreIdResult" nillable="true"
type="GetSessionDataRoot"/>
      <xs:element minOccurs="0" name="termStoreId"
xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/" type="q3:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetSessionDataWithTermStoreIdResult: Session related data for the specified **term store partition**.

termStoreId: The identifier of the specified term store partition.

3.1.4.49.3 Complex Types

None.

3.1.4.49.4 Simple Types

None.

3.1.4.49.5 Attributes

None.

3.1.4.49.6 Groups

None.

3.1.4.49.7 Attribute Groups

None.

3.1.4.50 GetTermSetWithAllTermsLimitedMembership

This operation is called to retrieve the **terms** in a **term set**.<30>

```
<wsdl:operation name="GetTermSetWithAllTermsLimitedMembership">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTermsLimitedMembership"
    message="tns:IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTermsLimitedMembershipResponse"
    message="tns:IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_OutputMessage"/>
</wsdl:operation>
```

The protocol server returns the terms as follows:

1. If either the **term store partition** or the term set are not found, the **GetTermSetWithAllTermsResponse** element MUST contain an empty root node.
2. If the term set exists in the term store partition but does not contain any terms, the **GetTermSetWithAllTermsResponse** element MUST contain five **NextResult** nodes surrounded by a root node. That is to say, there MUST NOT be any **T**, **TL**, **TD**, **TP**, **TM** or **CT** nodes in the result, as defined by **GetTermRoot** (section [2.2.4.17](#)).
3. If the term set exists in the term store partition and contains at least one term, the **GetTermSetWithAllTermsResponse** element MUST contain five **NextResult** nodes surrounded by a root node, and MUST contain **T**, **TL** and **TM** nodes for each term contained in the term set, as defined by **GetTermRoot**.

The terms, if any, MUST be returned in sorted order according to their hierarchy; that is, parent terms MUST be listed before **children** terms.

3.1.4.50.1 Messages

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

3.1.4.50.1.1 IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTermsLimitedMembership
```

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

3.1.4.50.1.2 IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_OutputMessage

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

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

3.1.4.50.2 Elements

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

3.1.4.50.2.1 GetTermSetWithAllTermsLimitedMembership

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

```
<xs:element name="GetTermSetWithAllTermsLimitedMembership">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q19="http://schemas.microsoft.com/2003/10/Serialization/" type="q19:guid"/>
      <xs:element minOccurs="1" name="termSetGuid"
        xmlns:q20="http://schemas.microsoft.com/2003/10/Serialization/" type="q20:guid"/>
      <xs:element minOccurs="1" name="includeDeprecated" type="xs:boolean"/>
      <xs:element minOccurs="1" name="limitMembership" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value MUST NOT be NULL or empty.

termSetGuid: The **term set** identifier.

includeDeprecated: Reserved. This parameter MUST be set to "false".

limitMembership: Whether to only include term set membership for the current term set or not.

3.1.4.50.2.2 GetTermSetWithAllTermsLimitedMembershipResponse

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

```
<xs:element name="GetTermSetWithAllTermsLimitedMembershipResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetWithAllTermsLimitedMembershipResult"
        nillable="true" type="GetTermRoot"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTermSetWithAllTermsLimitedMembershipResult: A **GetTermRoot** element (section [2.2.4.17](#)) that contains details of the **terms** in the **term set**.

3.1.4.50.3 Complex Types

None.

3.1.4.50.4 Simple Types

None.

3.1.4.50.5 Attributes

None.

3.1.4.50.6 Groups

None.

3.1.4.50.7 Attribute Groups

None.

3.1.4.51 ImportPartitionData2

This operation is called to import data into a **term store partition**.[<31>](#)

```
<wsdl:operation name="ImportPartitionData2">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData2"
    message="tns:IMetadataWebServiceApplication_ImportPartitionData2_InputMessage"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData2Response"
    message="tns:IMetadataWebServiceApplication_ImportPartitionData2_OutputMessage"/>
</wsdl:operation>
```

If the user does not have implementation specific rights to read the file at the specified file path, the protocol server MUST send a **SOAP fault** message containing a System.Exception. If a term store partition with the specified identifier already exists and **overwriteExistingData** is "false", the protocol server MUST send a SOAP fault message containing a **System.InvalidOperationException**. Otherwise, the protocol server imports the implementation specific data from the specified file path.

3.1.4.51.1 Messages

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

3.1.4.51.1.1 IMetadataWebServiceApplication_ImportPartitionData2_InputMessage

The request **WSDL message** for the **ImportPartitionData2 WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData2
```

The **SOAP body** contains the **ImportPartitionData2** element.

3.1.4.51.1.2 IMetadataWebServiceApplication_ImportPartitionData2_OutputMessage

The response **WSDL message** for the **ImportPartitionData2 WSDL operation**.

The **SOAP body** contains the **ImportPartitionData2Response** element.

3.1.4.51.2 Elements

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

3.1.4.51.2.1 ImportPartitionData2

The input data for the **ImportPartitionData2 WSDL operation**.

```
<xs:element name="ImportPartitionData2">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="rawPartitionId"
        xmlns:q83="http://schemas.microsoft.com/2003/10/Serialization/" type="q83:guid"/>
      <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string"/>
      <xs:element minOccurs="1" name="overwriteExistingData" type="xs:boolean"/>
      <xs:element minOccurs="1" name="noCompression" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawPartitionId: A **GUID** used to filter the current request. This value **MUST NOT** be NULL or empty.

filePath: UNC path to the **cabinet (.cab) file** that contains the data to import.

overwriteExistingData: Whether an existing **term store partition** with the identifier specified by the **rawPartitionId** parameter is overwritten by the import.

noCompression: Whether the data to be imported is compressed or not.

3.1.4.51.2.2 ImportPartitionData2Response

The result data for the **ImportPartitionData2 WSDL operation**.

```
<xs:element name="ImportPartitionData2Response">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.51.3 Complex Types

None.

3.1.4.51.4 Simple Types

None.

3.1.4.51.5 Attributes

None.

3.1.4.51.6 Groups

None.

3.1.4.51.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

Preliminary

4 Protocol Examples

The following example is a request and response for creating a new **term set group**.

The following example is a request to create a new term set group.

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write</a:Action>
    <a:MessageID>urn:uuid:6a748631-3e61-47fd-bd06-c8656b70e48f</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>9a3c5118-388a-49ef-b4c4-7ce6ad2aa4ab</correlationId>
      <locale>en-US</locale>
      <siteSubscriptionId>00000000-0000-0000-0000-000000000000</siteSubscriptionId>
    </ServiceContext>
    <a:To
s:mustUnderstand="1">http://SERVER/b77ccb6b285d41c68335fb6d8f7d8e3e/MetadataWebService.svc</a:To>
  </s:Header>
  <s:Body>
    <Write xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
      <data>
        <Root>
          <Partition Id="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" /><G a5="0" a6="-1"
a9="5e89a57f-e7c6-49b8-ad32-a761817c9233" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a11=""
a12="new group" a15="0" />
        </Root>
      </data>
    </Write>
  </s:Body>
</s:Envelope>
```

The following example is a response to the request to create a new term set group.

```
<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://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteResponse</a:Action>
    <ActivityId CorrelationId="ba16deee-f88e-4af6-b84f-b5fd96b81e14"
xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">9a927f0a-4f83-4e49-
becf-f8cc2fd7894f</ActivityId>
  </s:Header>
  <s:Body>
    <WriteResponse
xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"></WriteResponse>
  </s:Body>
</s:Envelope>
```

The following example is a request and response for creating a new **term set**.

The following example is a request to create a new term set.

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

```

    <s:Header>
      <a:Action
s:mustUnderstand="1">http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write</a:Action>
      <a:MessageID>urn:uuid:adc74086-3ce6-4a84-a9e4-ce4d145f897b</a:MessageID>
      <a:ReplyTo>
        <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
      </a:ReplyTo>
      <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <correlationId>033747f4-70e9-4250-8744-682a5b9e4f44</correlationId>
        <locale>en-US</locale>
        <siteSubscriptionId>00000000-0000-0000-0000-000000000000</siteSubscriptionId>
      </ServiceContext>
      <a:To
s:mustUnderstand="1">http://SERVER/b77ccb6b285d41c68335fb6d8f7d8e3e/MetadataWebService.svc</a:To>
    </s:Header>
    <s:Body>
      <Write xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
        <data>
          <Root>
            <Partition Id="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" />
            <TS a5="0" a6="-1" a9="60936ba7-8be1-43b7-83d6-87fb85be6ca9" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a12="new term set" a11="" a15="0" a16="false" a17="true" a18="" a68="" a1="3" a14="USERNAME" a67="" />
          </Root>
        </data>
      </Write>
    </s:Body>
  </s:Envelope>

```

The following example is a response to the request to create a new term set.

```

<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://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteResponse</a:Action>
    <ActivityId CorrelationId="4e70461f-8f7c-4b92-9181-6140e569cf76"
xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">6793b70e-c75f-467e-8b2d-44f37942f838</ActivityId>
  </s:Header>
  <s:Body>
    <WriteResponse
xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"></WriteResponse>
  </s:Body>
</s:Envelope>

```

The following example is a request and response for creating a new **term**.

The following example is a request to create a new term.

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write</a:Action>
    <a:MessageID>urn:uuid:3a86e6a6-6466-48c1-9cb5-c71f17d5276e</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
    <Write xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
      <data>
        <Root>
          <Partition Id="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" />
          <TS a5="0" a6="-1" a9="60936ba7-8be1-43b7-83d6-87fb85be6ca9" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a12="new term set" a11="" a15="0" a16="false" a17="true" a18="" a68="" a1="3" a14="USERNAME" a67="" />
        </Root>
      </data>
    </Write>
  </s:Body>
</s:Envelope>

```

```

    <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>d392da82-08fb-4a5c-a277-1eea029db935</correlationId>
      <locale>en-US</locale>
      <siteSubscriptionId>00000000-0000-0000-0000-000000000000</siteSubscriptionId>
    </ServiceContext>
    <a:To
s:mustUnderstand="1">http://SERVER/b77ccb6b285d41c68335fb6d8f7d8e3e/MetadataWebService.svc</a
:To>
  </s:Header>
  <s:Body>
    <Write xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
      <data>
        <Root>
          <Partition Id="8CD08F-1C05-4d17-AE04-FC19E918E32B" />
          <T a5="0" a6="-1" a9="019bfde5-af07-4532-8f39-64774b5bfe92" a0="8CD08F-1C05-
4d17-AE04-FC19E918E32B" a14="USERNAME" a19="2009-06-29T21:44:27.487297Z" a20="0" a21="false"
a17="true" a67="" a24="4" a26="true"><TL a5="0" a31="true" a32="term #1" a33="1033"
a35="false" />
        </T>
      </Root>
    </data>
  </Write>
</s:Body>
</s:Envelope>

```

The following example is a request to a response to create a new term.

```

<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://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWri
te/WriteResponse</a:Action>
    <ActivityId CorrelationId="191ecf08-3479-4880-bf51-571d1adf3de3"
xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">f9df67b3-e0e9-4ee4-
8c20-86a7d7c4c629</ActivityId>
  </s:Header>
  <s:Body>
    <WriteResponse
xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"></WriteResponse>
  </s:Body>
</s:Envelope>

```

The following example is a request and response for editing the description of an existing term.

The following example is a request to edit the description of an existing term.

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWri
te/Write</a:Action>
    <a:MessageID>urn:uuid:50aeb41e-2d6c-48d5-acdb-156ad493caa4</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>8142658a-1b6f-4cbb-8130-2b84f2609fa1</correlationId>
      <locale>en-US</locale>
      <siteSubscriptionId>00000000-0000-0000-0000-000000000000</siteSubscriptionId>
    </ServiceContext>

```

```

    <a:To
s:mustUnderstand="1">http://SERVER/b77ccb6b285d41c68335fb6d8f7d8e3e/MetadataWebService.svc</a
:To>
    </s:Header>
    <s:Body>
      <Write xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
        <data>
          <Root>
            <Partition Id="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" />
            <T a5="1" a6="4" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a8="2009-06-
29T21:45:07.513Z" a14="USERNAME" a19="2009-06-29T21:44:31.15Z" a20="0" a21="false" a17="true"
a67="" a24="4" a26="true"><TD a5="0" a11="Sample term description" a33="1033" /><TM a5="1"
a24="4" a17="true" a67="" a26="true" />
            </T>
          </Root>
        </data>
      </Write>
    </s:Body>
  </s:Envelope>

```

The following example is a response to a request to edit the description of an existing term.

```

<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://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWri
te/WriteResponse</a:Action>
    <ActivityId CorrelationId="cecebb73-dca5-483f-b658-4ad4f30907df"
xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">cel6a80e-65d6-47ab-
83b6-9fca95cc31b3</ActivityId>
  </s:Header>
  <s:Body>
    <WriteResponse xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
    </WriteResponse>
  </s:Body>
</s:Envelope>

```

The following example is a request and response for retrieving a term set by **GUID**.

The following example is a request to retrieve a term set by GUID.

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnl
y/GetTermSets</a:Action>
    <a:MessageID>urn:uuid:7637ed0a-4250-43a6-82f4-016270fced49</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>033747f4-70e9-4250-8744-682a5b9e4f44</correlationId>
      <locale>en-US</locale>
      <siteSubscriptionId>00000000-0000-0000-0000-000000000000</siteSubscriptionId>
    </ServiceContext>
    <a:To
s:mustUnderstand="1">http://SERVER/b77ccb6b285d41c68335fb6d8f7d8e3e/MetadataWebService.svc</a
:To>
  </s:Header>
  <s:Body>
    <GetTermSets xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">

```

```

    <rawPartitionId>8CDCD08F-1C05-4d17-AE04-FC19E918E32B</rawPartitionId>
    <termSetGuids xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:guid>60936ba7-8be1-43b7-83d6-87fb85be6ca9</b:guid>
    </termSetGuids>
  </GetTermSets>
</s:Body>
</s:Envelope>

```

The following example is a response to a request to retrieve a term set by GUID.

```

<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://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnl
y/GetTermSetsResponse</a:Action>
    <ActivityId CorrelationId="40439e5b-e097-488f-90f0-8a4d680207ba"
xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">9b90d173-3614-4e83-
bd66-32c6b3c1c95b</ActivityId>
  </s:Header>

  <s:Body>
    <GetTermSetsResponse xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
      <GetTermSetsResult>
        <Root>
          <G a6="3" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a9="5e89a57f-e7c6-49b8-
ad32-a761817c9233" a12="new group" a11="" a8="2009-06-29T21:44:13.397Z" a7="2009-06-
29T21:43:55.197Z" a15="0" />
          <NextResult />
          <NextResult />
          <GTSIds a1="3" a6="4" />
          <NextResult />
          <TS a6="4" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a7="2009-06-
29T21:44:13.397Z" a8="2009-06-29T21:44:13.397Z" a14="USERNAME" a9="60936ba7-8be1-43b7-83d6-
87fb85be6ca9" a12="new term set" a11="" a15="0" a16="False" a17="True" a18="" a68="" a1="3"
/>
          <NextResult />
        </Root>
      </GetTermSetsResult>
    </GetTermSetsResponse>
  </s:Body>
</s:Envelope>

```

The following example is a request and response for searching for a term based on a **term label**.

The following example is a request to search for a term based on a term label.

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnl
y/SearchTermByLabel</a:Action>
    <a:MessageID>urn:uuid:4978e393-2f00-46d1-b9de-d4b63b16adcc</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>ef836e6f-1afd-4a45-aa76-82afee2f1bc8</correlationId>
      <locale>en-US</locale>
      <siteSubscriptionId>00000000-0000-0000-0000-000000000000</siteSubscriptionId>
    </ServiceContext>

```



```

    <a:To
s:mustUnderstand="1">http://SERVER/b77ccb6b285d41c68335fb6d8f7d8e3e/MetadataWebService.svc</a
:To>
    </s:Header>
    <s:Body>
      <SearchTermByLabel xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
        <rawPartitionId>8CDCD08F-1C05-4d17-AE04-FC19E918E32B</rawPartitionId>
        <termSetId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"></termSetId>
        <anchorId i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"></anchorId>
        <label>term #1</label>
        <lcid>1033</lcid>
        <defaultLabelOnly>false</defaultLabelOnly>
        <includeIdPath>true</includeIdPath>
        <stringMatchOption>StartsWith</stringMatchOption>
        <resultCollectionSize>20</resultCollectionSize>
        <getFullPath>true</getFullPath>
        <defaultLcid i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"></defaultLcid>
        <isOptimized>true</isOptimized>
        <getAllLocalTermSets>true</getAllLocalTermSets>
      </SearchTermByLabel>
    </s:Body>
  </s:Envelope>

```

The following example is a response to a request to search for a term based on a term label.

```

<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://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnl
y/SearchTermByLabelResponse</a:Action>
    <ActivityId CorrelationId="6e446b6c-bf65-4814-b1ec-8aec17be73fa"
xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">82d80524-be41-4173-
867d-e3c7edd75030</ActivityId>
  </s:Header>
  <s:Body>
    <SearchTermByLabelResponse
xmlns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/">
      <SearchTermByLabelResult>
        <Root>
          <TS a6="4" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a7="2009-06-
29T21:44:13.397Z" a8="2009-06-29T21:44:31.15Z" a14="USERNAME" a9="60936ba7-8be1-43b7-83d6-
87fb85be6ca9" a12="new term set" a11="" a15="0" a16="False" a17="True" a18="" a68="" a1="3"
/><NextResult /><T a6="3" a0="8CDCD08F-1C05-4d17-AE04-FC19E918E32B" a7="2009-06-
29T21:44:27.567Z" a8="2009-06-29T21:44:27.567Z" a14="USERNAME" a9="019bfde5-af07-4532-8f39-
64774b5bfe92" a19="2009-06-29T21:44:27.567Z" a20="0" a21="False" a22="False" /><NextResult
/><TL a34="3" a33="1033" a32="term #1" a31="True" /><NextResult /><NextResult /><NextResult
/><TM a24="4" a34="3" a39="3" a25="0" a17="True" a26="True" a40="" a71="5E89A57F-E7C6-49B8-
AD32-A761817C9233|60936BA7-8BE1-43B7-83D6-87FB85BE6CA9|019BFDE5-AF07-4532-8F39-64774B5BFE92"
a42="1033|new term set" a41="60936ba7-8be1-43b7-83d6-87fb85be6ca9" a15="0" />
          <NextResult />
        </Root>
      </SearchTermByLabelResult>
    </SearchTermByLabelResponse>
  </s:Body>
</s:Envelope>

```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

Preliminary

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this section.

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:i0="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"
name="MetadataWebServiceApplication"
targetNamespace="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema xmlns:tns="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"
xmlns:mstc="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
xmlns:mstc="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentType
Sync" xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sharepoint/taxonomy/soap/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy" />
      <xs:import namespace="http://schemas.microsoft.com/Message" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentTypes
ync" />
      <xs:element name="GetSessionData">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q1:guid" />
            <xs:element minOccurs="1" name="lcid" type="LCID" />
            <xs:element minOccurs="1" name="systemGroupName" nillable="false"
type="xs:string" />
            <xs:element minOccurs="1" name="systemGroupDescription" nillable="false"
type="xs:string" />
            <xs:element minOccurs="1" name="keywordsTermsetName" nillable="false"
type="xs:string" />
            <xs:element minOccurs="1" name="keywordsTermsetDescription" nillable="false"
type="xs:string" />
            <xs:element minOccurs="1" name="orphanedTermsTermsetName" nillable="false"
type="xs:string" />
            <xs:element minOccurs="1" name="orphanedTermsTermsetDescription"
nillable="false" type="xs:string" />
            <xs:element minOccurs="1" name="hashtagsTermsetName" nillable="false"
type="xs:string" />
            <xs:element minOccurs="1" name="hashtagsTermsetDescription" nillable="false"
type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetSessionDataResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="GetSessionDataResult" nillable="true"
type="GetSessionDataRoot" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetSessionDataWithTermStoreId">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q2:guid" />

```

```

        <xs:element minOccurs="1" name="lcid" type="LCID" />
        <xs:element minOccurs="1" name="systemGroupName" nillable="false"
type="xs:string" />
        <xs:element minOccurs="1" name="systemGroupDescription" nillable="false"
type="xs:string" />
        <xs:element minOccurs="1" name="keywordsTermsetName" nillable="false"
type="xs:string" />
        <xs:element minOccurs="1" name="keywordsTermsetDescription" nillable="false"
type="xs:string" />
        <xs:element minOccurs="1" name="orphanedTermsTermsetName" nillable="false"
type="xs:string" />
        <xs:element minOccurs="1" name="orphanedTermsTermsetDescription"
nillable="false" type="xs:string" />
        <xs:element minOccurs="1" name="hashtagsTermsetName" nillable="false"
type="xs:string" />
        <xs:element minOccurs="1" name="hashtagsTermsetDescription" nillable="false"
type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetSessionDataWithTermStoreIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetSessionDataWithTermStoreIdResult"
nillable="true" type="xs:string" />
            <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="termStoreId" type="q3:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetGroupByGuid">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q4="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q4:guid" />
            <xs:element xmlns:q5="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="groupGuid" type="q5:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetGroupByGuidResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetGroupByGuidResult" nillable="true"
type="GetGroupsRoot" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetGroups">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q6:guid" />
            <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="groupIds" nillable="false" type="q7:ArrayOfint" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetGroupsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetGroupsResult" nillable="true"
type="GetGroupsRoot" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTerm">
    <xs:complexType>
        <xs:sequence>

```

```

        <xs:element xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q8:guid" />
        <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="termGuid" type="q9:guid" />
        <xs:element minOccurs="1" name="termSetId" type="xs:int" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetTermResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetTermResult" nillable="true" type="GetTermRoot"
/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTermsInternal">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q10:guid" />
            <xs:element xmlns:q11="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="termIds" nillable="false" type="q11:ArrayOfint" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTermsInternalResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetTermsInternalResult" nillable="true"
type="GetTermRoot" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTerms">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q12:guid" />
            <xs:element xmlns:q13="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="termGuids" nillable="false" type="q13:ArrayOfguid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTermsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetTermsResult" nillable="true"
type="SearchedTermsRootStandard" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTermSets">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q14="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q14:guid" />
            <xs:element xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="termSetGuids" nillable="false" type="q15:ArrayOfguid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetTermSetsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetTermSetsResult" nillable="true"
type="GetGroupsAndTermSetsRoot" />
        </xs:sequence>
    </xs:complexType>

```

```

</xs:element>
<xs:element name="GetTermSetsInternal">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q16:guid" />
      <xs:element xmlns:q17="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="termSetIds" nillable="false" type="q17:ArrayOfint" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTermSetsInternalResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetsInternalResult" nillable="true"
type="GetTermSetRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSortedChildTermIds">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q18="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q18:guid" />
      <xs:element minOccurs="1" name="termSetId" type="xs:int" />
      <xs:element minOccurs="1" name="parentTermId" type="xs:int" />
      <xs:element minOccurs="1" name="locale" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSortedChildTermIdsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSortedChildTermIdsResult" nillable="true"
type="GetSortedChildTermIdsRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTermSetWithAllTermsLimitedMembership">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q19="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q19:guid" />
      <xs:element xmlns:q20="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="termSetGuid" type="q20:guid" />
      <xs:element minOccurs="1" name="includeDeprecated" type="xs:boolean" />
      <xs:element minOccurs="1" name="limitMembership" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTermSetWithAllTermsLimitedMembershipResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetWithAllTermsLimitedMembershipResult"
nillable="true" type="GetTermRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetTermSetWithAllTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q21="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q21:guid" />
      <xs:element xmlns:q22="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="termSetGuid" type="q22:guid" />
      <xs:element minOccurs="1" name="includeDeprecated" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="GetTermSetWithAllTermsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetWithAllTermsResult" nillable="true"
type="GetTermRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDescendentTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q23="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q23:guid" />
      <xs:element minOccurs="1" name="termSetId" type="xs:int" />
      <xs:element minOccurs="1" name="termId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDescendentTermsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDescendentTermsResult" nillable="true"
type="GetTermRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChangesForListSync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime" />
      <xs:element xmlns:q24="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="webAppId" type="q24:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChangesForListSyncResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangesForListSyncResult" nillable="true"
type="GetChangesForListSyncRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChangesForFullListSync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChangesForFullListSyncResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangesForFullListSyncResult" nillable="true"
type="GetChangesForFullListSyncRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChanges">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q25="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="rawPartitionId" nillable="true" type="q25:guid" />
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="groupId" nillable="true" type="xs:int" />
      <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  xmlns:q26="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
  minOccurs="0" name="changedItemType" nillable="true" type="q26:ChangedItemType" />

```

```

        <xs:element
xmlns:q27="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
minOccurs="0" name="changedOperationType" nillable="true" type="q27:ChangedOperationType" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChangesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetChangesResult" nillable="true"
type="GetChangesRoot" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChanges2">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q28="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="rawPartitionId" nillable="true" type="q28:guid" />
        <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime" />
        <xs:element minOccurs="0" name="groupId" nillable="true" type="xs:int" />
        <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int" />
        <xs:element
xmlns:q29="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
minOccurs="0" name="changedItemType" nillable="true" type="q29:ChangedItemType" />
        <xs:element
xmlns:q30="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
minOccurs="0" name="changedOperationType" nillable="true" type="q30:ChangedOperationType" />
        <xs:element minOccurs="0" name="enforceUpdate" nillable="true" type="xs:boolean"
/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChanges2Response">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetChanges2Result" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChangesOverInterval">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q31="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q31:guid" />
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="sinceTimeAgo" type="q32:duration" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChangesOverIntervalResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetChangesOverIntervalResult" nillable="true"
type="GetChangesRoot" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetChangeTime">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q33="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q33:guid" />
        <xs:element xmlns:q34="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="groupGuid" nillable="true" type="q34:guid" />
        <xs:element xmlns:q35="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="termSetGuid" nillable="true" type="q35:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```



```

    </xs:complexType>
  </xs:element>
  <xs:element name="GetChangeTimeResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetChangeTimeResult" nillable="true"
type="GetChangeTimeRoot" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SearchTermByLabel">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q36="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="rawPartitionId" type="q36:guid" />
        <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int" />
        <xs:element minOccurs="0" name="anchorId" nillable="true" type="xs:int" />
        <xs:element minOccurs="0" name="label" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="lcid" nillable="true" type="xs:int" />
        <xs:element minOccurs="0" name="defaultLabelOnly" type="xs:boolean" />
        <xs:element minOccurs="0" name="includeIdPath" type="xs:boolean" />
        <xs:element
xmlns:q37="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
minOccurs="0" name="stringMatchOption" type="q37:StringMatchOption" />
        <xs:element minOccurs="0" name="resultCollectionSize" type="xs:int" />
        <xs:element minOccurs="0" name="getFullPath" type="xs:boolean" />
        <xs:element minOccurs="0" name="defaultLcid" nillable="true" type="xs:int" />
        <xs:element minOccurs="0" name="isOptimized" type="xs:boolean" />
        <xs:element minOccurs="0" name="getAllLocalTermSets" type="xs:boolean" />
        <xs:element minOccurs="0" name="siteGroupId" nillable="true" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SearchTermByLabelResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchTermByLabelResult" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SearchTermSetByName">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q38="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q38:guid" />
        <xs:element minOccurs="1" name="termSetName" nillable="false" type="xs:string" />
        <xs:element minOccurs="1" name="lcid" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SearchTermSetByNameResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchTermSetByNameResult" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetTermSetsByLabel">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q39="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q39:guid" />
        <xs:element xmlns:q40="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="labels" nillable="false" type="q40:ArrayOfstring" />
        <xs:element minOccurs="0" name="lcid" nillable="true" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

</xs:element>
<xs:element name="GetTermSetsByLabelResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetTermSetsByLabelResult" nillable="true"
type="GetGroupsAndTermSetsRoot" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SearchTermSetsByProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q41="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q41:guid" />
      <xs:element minOccurs="0" name="groupId" nillable="true" type="xs:int" />
      <xs:element minOccurs="1" name="propertyName" nillable="false" type="xs:string"
/>
      <xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"
/>
      <xs:element
xmlns:q42="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
minOccurs="0" name="stringMatchOption" type="q42:StringMatchOption" />
      <xs:element minOccurs="1" name="resultCollectionSize" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SearchTermSetsByPropertyResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchTermSetsByPropertyResult" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SearchTermByProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q43="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q43:guid" />
      <xs:element minOccurs="0" name="termSetId" nillable="true" type="xs:int" />
      <xs:element minOccurs="1" name="propertyName" nillable="false" type="xs:string"
/>
      <xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"
/>
      <xs:element
xmlns:q44="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
minOccurs="1" name="stringMatchOption" type="q44:StringMatchOption" />
      <xs:element minOccurs="1" name="resultCollectionSize" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SearchTermByPropertyResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchTermByPropertyResult" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSitesContainingTerms">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q45="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q45:guid" />
      <xs:element xmlns:q46="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="termSetIdMappings" nillable="false"
type="q46:ArrayOfKeyValueOfguidArrayOfguidox8ie0cg" />
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:element name="GetSitesContainingTermsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSitesContainingTermsResult" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChangedTermSets">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="sinceTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="propertyName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"
/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetChangedTermSetsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangedTermSetsResult" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SearchAllTermSetsByProperty">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="propertyName" nillable="false" type="xs:string"
/>
      <xs:element minOccurs="1" name="propertyValue" nillable="false" type="xs:string"
/>
      <xs:element minOccurs="1" name="resultSize" type="xs:int" />
      <xs:element minOccurs="1" name="startId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SearchAllTermSetsByPropertyResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SearchAllTermSetsByPropertyResult"
nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Write">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="data" nillable="false" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="WriteResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="WriteUsedTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q47="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q47:guid" />
      <xs:element xmlns:q48="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="webAppId" type="q48:guid" />
      <xs:element xmlns:q49="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="contentDatabaseId" type="q49:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        <xs:element xmlns:q50="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="siteId" type="q50:guid" />
        <xs:element xmlns:q51="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="termSetId" type="q51:guid" />
        <xs:element xmlns:q52="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="termId" type="q52:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="WriteUsedTermResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="WriteUsedTerms">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q53="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q53:guid" />
            <xs:element xmlns:q54="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="webAppId" type="q54:guid" />
            <xs:element xmlns:q55="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="contentDatabaseId" type="q55:guid" />
            <xs:element xmlns:q56="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="siteId" type="q56:guid" />
            <xs:element xmlns:q57="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="termSetIds" nillable="false" type="q57:ArrayOfguid" />
            <xs:element xmlns:q58="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="1" name="termIds" nillable="false" type="q58:ArrayOfguid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="WriteUsedTermsResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="WriteClearUsedTerms">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q59="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q59:guid" />
            <xs:element xmlns:q60="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="webAppId" type="q60:guid" />
            <xs:element xmlns:q61="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="contentDatabaseId" type="q61:guid" />
            <xs:element xmlns:q62="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="siteId" type="q62:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="WriteClearUsedTermsResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="RemoveUsedTermSet">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q63="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="rawPartitionId" type="q63:guid" />
            <xs:element xmlns:q64="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="termSetId" type="q64:guid" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveUsedTermSetResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteServiceSettings">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q65="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q65:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteServiceSettingsResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceSettings">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q66="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q66:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceSettingsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetServiceSettingsResult" nillable="true"
type="GetServiceSettingsRoot" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceApplicationSettings">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceApplicationSettingsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetServiceApplicationSettingsResult"
nillable="true" type="GetServiceSettingsRoot" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetServiceSettings">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q67="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q67:guid" />
        <xs:element minOccurs="1" name="settingsXml" nillable="false" type="xs:string" />
        <xs:element minOccurs="1" name="unpublishAllPackages" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetServiceSettingsResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="InitiateCacheFlush">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="InitiateCacheFlushResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>

```

```

    <xs:element name="PublishPackage">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="content" nillable="true" type="xs:base64Binary"
/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="PublishPackageResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="UnpublishPackage">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q68="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q68:guid" />
          <xs:element minOccurs="1" name="packageId" nillable="false" type="ContentTypeId"
/>
          <xs:element xmlns:q69="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="packageType" type="q69:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UnpublishPackageResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="DownloadPackage">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q70="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q70:guid" />
          <xs:element minOccurs="1" name="packageId" nillable="false" type="ContentTypeId"
/>
          <xs:element xmlns:q71="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="packageType" type="q71:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="DownloadPackageResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q72="http://schemas.microsoft.com/Message"
name="DownloadPackageResult" type="q72:StreamBody" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetUpdateInformation">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q73="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q73:guid" />
          <xs:element minOccurs="1" name="lastUpdateTime" type="xs:dateTime" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetUpdateInformationResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q74="http://schemas.microsoft.com/Message"
name="GetUpdateInformationResult" type="q74:StreamBody" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetApplicationLog">
      <xs:complexType>

```

```

        <xs:sequence>
          <xs:element xmlns:q75="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q75:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetApplicationLogResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q76="http://schemas.microsoft.com/Message"
name="GetApplicationLogResult" type="q76:StreamBody" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ClearApplicationLog">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q77="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q77:guid" />
          <xs:element minOccurs="1" name="endTime" type="xs:dateTime" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ClearApplicationLogResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="UploadStatus">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q78="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q78:guid" />
          <xs:element minOccurs="1" name="siteUrl" nillable="false" type="xs:string" />
          <xs:element minOccurs="1" name="objectName" nillable="false" type="xs:string" />
          <xs:element
xmlns:q79="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentTypesE
ync" minOccurs="1" name="status" type="q79:SyndicationStatus" />
          <xs:element minOccurs="1" name="message" nillable="false" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UploadStatusResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetServiceApplicationName">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetServiceApplicationNameResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetServiceApplicationNameResult" nillable="true"
type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetIsServiceApplicationPartitioned">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetIsServiceApplicationPartitionedResponse">
      <xs:complexType>
        <xs:sequence>

```

```

        <xs:element minOccurs="0" name="GetIsServiceApplicationPartitionedResult"
type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ExportPartitionData">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q80="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q80:guid" />
            <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPartitionDataResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="ExportPartitionData2">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q81="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q81:guid" />
            <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string" />
            <xs:element minOccurs="1" name="noCompression" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExportPartitionData2Response">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="ImportPartitionData">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q82="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q82:guid" />
            <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string" />
            <xs:element minOccurs="1" name="overwriteExistingData" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPartitionDataResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="ImportPartitionData2">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q83="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="q83:guid" />
            <xs:element minOccurs="1" name="filePath" nillable="false" type="xs:string" />
            <xs:element minOccurs="1" name="overwriteExistingData" type="xs:boolean" />
            <xs:element minOccurs="1" name="noCompression" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ImportPartitionData2Response">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="ClearPartitionData">
    <xs:complexType>
        <xs:sequence>

```



```

        <xs:element xmlns:g84="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="1" name="rawPartitionId" type="g84:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ClearPartitionDataResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:simpleType name="GroupType">
    <xs:restriction base="xs:int">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
        <xs:enumeration value="2" />
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="TermSetType">
    <xs:restriction base="xs:int">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
        <xs:enumeration value="2" />
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CommandAction">
    <xs:restriction base="xs:int">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
        <xs:enumeration value="2" />
        <xs:enumeration value="3" />
        <xs:enumeration value="4" />
        <xs:enumeration value="5" />
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CommandActionBasic">
    <xs:restriction base="CommandAction">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
        <xs:enumeration value="2" />
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="InternalIdentifier">
    <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:simpleType name="LCID">
    <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:simpleType name="Rights">
    <xs:restriction base="xs:unsignedLong">
        <xs:minInclusive value="0" />
        <xs:maxInclusive value="273" />
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ContentTypeId">
    <xs:restriction base="xs:string">
        <xs:pattern value="0x([0-9A-Fa-f] [1-9A-Fa-f] | [1-9A-Fa-f] [0-9A-Fa-f] | 00[0-9A-Fa-
f]{32})*" />
        <xs:minLength value="2" />
        <xs:maxLength value="1026" />
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="GetApplicationLogRoot">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Root">
            <xs:complexType>
                <xs:sequence>
                    <xs:element maxOccurs="unbounded" name="AL">
                        <xs:complexType>
                            <xs:attribute name="a63" type="xs:string" use="required" />

```

```

        <xs:attribute name="a64" type="xs:string" use="optional" />
        <xs:attribute name="a65" type="mstc:SyndicationStatus" use="required" />
        <xs:attribute name="a66" type="xs:string" use="required" />
        <xs:attribute name="a7" type="xs:dateTime" use="required" />
    </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="GetUpdateInformationRoot">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Root">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="0" maxOccurs="unbounded" name="P">
                        <xs:complexType>
                            <xs:attribute name="PIId" type="ContentTypeId" use="required" />
                            <xs:attribute name="PType" type="ser:guid" use="required" />
                            <xs:attribute name="PP" type="xs:boolean" use="required" />
                        </xs:complexType>
                    </xs:element>
                    <xs:element name="T" type="xs:dateTime" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="WritePartionIndicator">
    <xs:attribute name="Id" type="ser:guid" use="required" />
</xs:complexType>
<xs:complexType name="ServiceSettings">
    <xs:attribute name="HubUri" type="xs:string" use="required" />
    <xs:attribute name="RptOn" type="xs:boolean" use="required" />
    <xs:attribute name="TSId" type="ser:guid" use="required" />
    <xs:attribute name="CacheSec" type="xs:int" use="optional" />
    <xs:attribute name="MaxChan" type="xs:int" use="optional" />
</xs:complexType>
<xs:complexType name="ServiceSettingsSettingsXmlDoc">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="MetadataSettings"
type="ServiceSettings" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="SerializedECMSERVICESETTINGSTABLEROW">
    <xs:attribute name="a62" type="xs:string" use="required" />
</xs:complexType>
<xs:complexType name="SystemGroupIdIndicator">
    <xs:attribute name="a9" type="ser:guid" use="required" />
</xs:complexType>
<xs:complexType name="KeywordTermSetIdIndicator">
    <xs:attribute name="a9" type="ser:guid" use="required" />
</xs:complexType>
<xs:complexType name="OrphanedTermSetIdIndicator">
    <xs:attribute name="a9" type="ser:guid" use="required" />
</xs:complexType>
<xs:complexType name="NewPartitionIndicator">
    <xs:attribute name="new" type="xs:boolean" use="required" />
</xs:complexType>
<xs:complexType name="SerializedECMLanguageTableRow">
    <xs:attribute name="a0" type="ser:guid" use="required" />
    <xs:attribute name="a59" type="LCID" use="required" />
    <xs:attribute name="a58" type="xs:boolean" use="optional" />
    <xs:attribute name="a5" type="CommandActionBasic" use="optional" />
</xs:complexType>
<xs:complexType name="SerializedECMPermissionTableRow">
    <xs:attribute name="a2" type="xs:string" use="required" />
    <xs:attribute name="a3" type="xs:string" use="optional" />

```

```

    <xs:attribute name="a4" type="Rights" use="optional" />
    <xs:attribute name="a1" type="InternalIdentifier" use="optional" />
    <xs:attribute name="a0" type="ser:guid" use="optional" />
    <xs:attribute name="a5" type="CommandActionBasic" use="optional" />
  </xs:complexType>
  <xs:complexType name="SerializedECMGroupTableRow">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="P"
type="SerializedECMPermissionTableRow" />
    </xs:sequence>
    <xs:attribute name="a6" type="InternalIdentifier" use="required" />
    <xs:attribute name="a0" type="ser:guid" use="required" />
    <xs:attribute name="a7" type="xs:dateTime" use="optional" />
    <xs:attribute name="a8" type="xs:dateTime" use="optional" />
    <xs:attribute name="a9" type="ser:guid" use="optional" />
    <xs:attribute name="a12" type="xs:string" use="optional" />
    <xs:attribute name="a11" type="xs:string" use="optional" />
    <xs:attribute name="a15" type="GroupType" use="optional" />
    <xs:attribute name="a5" type="CommandActionBasic" use="optional" />
  </xs:complexType>
  <xs:complexType name="SerializedECMTermSetTableRow">
    <xs:attribute name="a6" type="InternalIdentifier" use="required" />
    <xs:attribute name="a0" type="ser:guid" use="required" />
    <xs:attribute name="a7" type="xs:dateTime" use="optional" />
    <xs:attribute name="a8" type="xs:dateTime" use="optional" />
    <xs:attribute name="a9" type="ser:guid" use="optional" />
    <xs:attribute name="a14" type="xs:string" use="optional" />
    <xs:attribute name="a12" type="xs:string" use="optional" />
    <xs:attribute name="a11" type="xs:string" use="optional" />
    <xs:attribute name="a15" type="TermSetType" use="optional" />
    <xs:attribute name="a16" type="xs:boolean" use="optional" />
    <xs:attribute name="a17" type="xs:boolean" use="optional" />
    <xs:attribute name="a18" type="xs:string" use="optional" />
    <xs:attribute name="a68" type="xs:string" use="optional" />
    <xs:attribute name="a1" type="InternalIdentifier" use="optional" />
    <xs:attribute name="a67" type="xs:string" use="optional" />
    <xs:attribute name="a10" type="InternalIdentifier" use="optional" />
    <xs:attribute name="a5" type="CommandAction" use="optional" />
  </xs:complexType>
  <xs:complexType name="SerializedECMTermTableRowForRead">
    <xs:attribute name="a6" type="InternalIdentifier" use="required" />
    <xs:attribute name="a0" type="ser:guid" use="required" />
    <xs:attribute name="a7" type="xs:dateTime" use="optional" />
    <xs:attribute name="a8" type="xs:dateTime" use="optional" />
    <xs:attribute name="a9" type="ser:guid" use="optional" />
    <xs:attribute name="a14" type="xs:string" use="optional" />
    <xs:attribute name="a19" type="xs:dateTime" use="optional" />
    <xs:attribute name="a20" type="xs:int" use="optional" />
    <xs:attribute name="a21" type="xs:boolean" use="optional" />
    <xs:attribute name="a22" type="xs:boolean" use="optional" />
  </xs:complexType>
  <xs:complexType name="SerializedECMTermTableRowForWrite">
    <xs:sequence minOccurs="0">
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="TL" type="SerializedECMTermLabelTableRowForWrite" />
        <xs:element name="TD" type="SerializedECMTermDescriptionTableRowForWrite" />
        <xs:element name="TP" type="SerializedECMTermPropertyTableRowForWrite" />
        <xs:element name="TM" type="SerializedECMTermSetMembershipTableRowForWrite" />
      </xs:choice>
    </xs:sequence>
    <xs:attribute name="a6" type="InternalIdentifier" use="required" />
    <xs:attribute name="a0" type="ser:guid" use="required" />
    <xs:attribute name="a8" type="xs:dateTime" use="optional" />
    <xs:attribute name="a9" type="ser:guid" use="optional" />
    <xs:attribute name="a14" type="xs:string" use="optional" />
    <xs:attribute name="a19" type="xs:dateTime" use="optional" />
    <xs:attribute name="a20" type="xs:int" use="optional" />
    <xs:attribute name="a21" type="xs:boolean" use="optional" />
    <xs:attribute name="a22" type="xs:boolean" use="optional" />
  </xs:complexType>

```

```

<xs:attribute name="a17" type="xs:boolean" use="optional" />
<xs:attribute name="a67" type="xs:string" use="optional" />
<xs:attribute name="a24" type="InternalIdentifier" use="optional" />
<xs:attribute name="a25" type="InternalIdentifier" use="optional" />
<xs:attribute name="a26" type="xs:boolean" use="optional" />
<xs:attribute name="a74" type="InternalIdentifier" use="optional" />
<xs:attribute name="a27" type="xs:boolean" use="optional" />
<xs:attribute name="a28" type="InternalIdentifier" use="optional" />
<xs:attribute name="a10" type="InternalIdentifier" use="optional" />
<xs:attribute name="a30" type="xs:boolean" use="optional" />
<xs:attribute name="a55" type="xs:string" use="optional" />
<xs:attribute name="a5" type="CommandAction" use="required" />
</xs:complexType>
<xs:complexType name="SerializedECMTermLabelTableRowBase">
  <xs:attribute name="a33" type="LCID" use="required" />
  <xs:attribute name="a32" type="xs:string" use="required" />
  <xs:attribute name="a31" type="xs:boolean" use="optional" />
</xs:complexType>
<xs:complexType name="SerializedECMTermLabelTableRowForRead">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermLabelTableRowBase">
      <xs:attribute name="a34" type="InternalIdentifier" use="required" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="SerializedECMTermLabelTableRowForWrite">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermLabelTableRowBase">
      <xs:attribute name="a5" type="CommandActionBasic" use="required" />
      <xs:attribute name="a35" type="xs:boolean" use="optional" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="SerializedECMTermDescriptionTableRowBase">
  <xs:attribute name="a33" type="LCID" use="required" />
  <xs:attribute name="a11" type="xs:string" use="required" />
</xs:complexType>
<xs:complexType name="SerializedECMTermDescriptionTableRowForRead">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermDescriptionTableRowBase">
      <xs:attribute name="a34" type="InternalIdentifier" use="required" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="SerializedECMTermDescriptionTableRowForWrite">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermDescriptionTableRowBase">
      <xs:attribute name="a5" type="CommandActionBasic" use="required" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="SerializedECMTermPropertyTableRowBase">
  <xs:attribute name="a37" type="xs:string" use="required" />
  <xs:attribute name="a38" type="xs:string" use="optional" />
</xs:complexType>
<xs:complexType name="SerializedECMTermPropertyTableRowForRead">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermPropertyTableRowBase">
      <xs:attribute name="a34" type="InternalIdentifier" use="required" />
      <xs:attribute name="a24" type="InternalIdentifier" use="required" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="SerializedECMTermPropertyTableRowForWrite">
  <xs:complexContent mixed="false">
    <xs:extension base="SerializedECMTermPropertyTableRowBase">
      <xs:attribute name="a5" type="CommandActionBasic" use="required" />
      <xs:attribute name="a24" type="InternalIdentifier" use="optional" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="SerializedECMTermSetMembershipTableRowBase">
    <xs:attribute name="a24" type="InternalIdentifier" use="required" />
    <xs:attribute name="a25" type="InternalIdentifier" use="optional" />
    <xs:attribute name="a17" type="xs:boolean" use="optional" />
    <xs:attribute name="a26" type="xs:boolean" use="optional" />
    <xs:attribute name="a67" type="xs:string" use="optional" />
    <xs:attribute name="a74" type="InternalIdentifier" use="optional" />
  </xs:complexType>
  <xs:complexType name="SerializedECMTermSetMembershipTableRowForRead">
    <xs:complexContent mixed="false">
      <xs:extension base="SerializedECMTermSetMembershipTableRowBase">
        <xs:attribute name="a34" type="InternalIdentifier" use="required" />
        <xs:attribute name="a39" type="xs:string" use="required" />
        <xs:attribute name="a40" type="xs:string" use="optional" />
        <xs:attribute name="a71" type="xs:string" use="optional" />
        <xs:attribute name="a43" type="ser:guid" use="optional" />
        <xs:attribute name="a42" type="xs:string" use="optional" />
        <xs:attribute name="a41" type="ser:guid" use="optional" />
        <xs:attribute name="a15" type="TermSetType" use="optional" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="SerializedECMTermSetMembershipTableRowForWrite">
    <xs:complexContent mixed="false">
      <xs:extension base="SerializedECMTermSetMembershipTableRowBase">
        <xs:attribute name="a5" type="CommandAction" use="required" />
        <xs:attribute name="a46" type="InternalIdentifier" use="optional" />
        <xs:attribute name="a47" type="InternalIdentifier" use="optional" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="SerializedECMGroupIdsTableRow">
    <xs:attribute name="a6" type="InternalIdentifier" use="required" />
  </xs:complexType>
  <xs:complexType name="SerializedECMGroupTermSetIdsTableRow">
    <xs:attribute name="a1" type="InternalIdentifier" use="required" />
    <xs:attribute name="a6" type="InternalIdentifier" use="required" />
  </xs:complexType>
  <xs:complexType name="SerializedECMRootTermTableRow">
    <xs:attribute name="a24" type="InternalIdentifier" use="required" />
    <xs:attribute name="a34" type="InternalIdentifier" use="required" />
  </xs:complexType>
  <xs:complexType name="SerializedECMChildTermTableRow">
    <xs:attribute name="a25" type="InternalIdentifier" use="required" />
    <xs:attribute name="a24" type="InternalIdentifier" use="required" />
    <xs:attribute name="a57" type="InternalIdentifier" use="required" />
  </xs:complexType>
  <xs:complexType name="WriteRoot">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Root">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="Partition"
type="WritePartitionIndicator" />
            <xs:choice minOccurs="0" maxOccurs="unbounded">
              <xs:element name="G" type="SerializedECMGroupTableRow" />
              <xs:element name="TS" type="SerializedECMTermSetTableRow" />
              <xs:element name="T" type="SerializedECMTermTableRowForWrite" />
            </xs:choice>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="L"
type="SerializedECMLanguageTableRow" />
            <xs:element minOccurs="0" maxOccurs="unbounded" name="P"
type="SerializedECMPermissionTableRow" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:complexType>
<xs:complexType name="GetSessionDataRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="L" type="SerializedECMLanguageTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element name="GIds" type="SerializedECMGroupIdsTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element name="P" type="SerializedECMPermissionTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element minOccurs="0" maxOccurs="1" name="SGId"
type="SystemGroupIdIndicator" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element minOccurs="0" maxOccurs="1" name="KTSId"
type="KeywordTermSetIdIndicator" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element minOccurs="0" maxOccurs="1" name="OTSID"
type="OrphanedTermSetIdIndicator" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element minOccurs="1" maxOccurs="1" name="CL"
type="SerializedECMChangeLogTableTimeOnlyRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="partition"
type="NewPartitionIndicator" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GetServiceSettingsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="SS" type="SerializedECMServiceSettingsTableRow" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GetGroupsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" name="G" type="SerializedECMGroupTableRow"
/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="P"
type="SerializedECMPermissionTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="GTSIDs"
type="SerializedECMGroupTermSetIdsTableRow" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="UserName">
  <xs:restriction base="xs:string">
    <xs:length value="255" />
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="SerializedECMChangeLogTableRow">
  <xs:attribute name="a0" type="ser:guid" use="required" />
  <xs:attribute name="a48" type="ser:guid" use="optional" />
  <xs:attribute name="a49" type="ser:guid" use="optional" />
  <xs:attribute name="a50" type="ser:guid" use="optional" />

```

```

    <xs:attribute name="a51" type="InternalIdentifier" use="optional" />
    <xs:attribute name="a52" type="mst:ChangedItemType" use="required" />
    <xs:attribute name="a53" type="mst:ChangedOperationType" use="required" />
    <xs:attribute name="a54" type="xs:dateTime" use="required" />
    <xs:attribute name="a55" type="xs:string" use="optional" />
    <xs:attribute name="a56" type="UserName" use="optional" />
  </xs:complexType>
  <xs:complexType name="GetChangesRoot">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Root">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="CL"
type="SerializedECMChangeLogTableRow" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="SerializedECMChangeLogTableTimeOnlyRow">
    <xs:attribute name="a54" type="xs:dateTime" use="optional" />
  </xs:complexType>
  <xs:complexType name="GetChangeTimeRoot">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Root">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="CL"
type="SerializedECMChangeLogTableTimeOnlyRow" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="GetTermRoot">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Root">
        <xs:complexType>
          <xs:sequence>
            <xs:element maxOccurs="unbounded" name="T"
type="SerializedECMTermTableRowForRead" />
            <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
            <xs:element maxOccurs="unbounded" name="TL"
type="SerializedECMTermLabelTableRowForRead" />
            <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
            <xs:element minOccurs="0" maxOccurs="unbounded" name="TD"
type="SerializedECMTermDescriptionTableRowForRead" />
            <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
            <xs:element maxOccurs="unbounded" name="TM"
type="SerializedECMTermSetMembershipTableRowForRead" />
            <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
            <xs:element minOccurs="0" maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead" />
            <xs:element minOccurs="0" maxOccurs="1" name="NextResult" />
            <xs:element minOccurs="0" maxOccurs="unbounded" name="CT"
type="SerializedECMChildTermTableRow" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="GetTermSetRoot">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Root">
        <xs:complexType>
          <xs:sequence>
            <xs:element maxOccurs="unbounded" name="TS"
type="SerializedECMTermSetTableRow" />
            <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

```

```

        <xs:element maxOccurs="unbounded" name="RT"
type="SerializedECMRootTermTableRow" />
        <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
        <xs:element maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead" />
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="SearchAllTermSetsByPropertyRoot">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Root">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="0" maxOccurs="unbounded" name="TP">
                        <xs:complexType>
                            <xs:attribute name="a0" type="ser:guid" use="required" />
                            <xs:attribute name="a24" type="xs:int" use="required" />
                            <xs:attribute name="a37" type="xs:string" use="required" />
                            <xs:attribute name="a38" type="xs:string" use="required" />
                        </xs:complexType>
                    </xs:element>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="GetChangedTermSetsRoot">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Root">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="0" maxOccurs="unbounded" name="CL">
                        <xs:complexType>
                            <xs:attribute name="a0" type="ser:guid" use="required" />
                            <xs:attribute name="a49" type="ser:guid" use="required" />
                            <xs:attribute name="a73" type="xs:dateTime" use="required" />
                        </xs:complexType>
                    </xs:element>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="GetGroupsAndTermSetsRoot">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Root">
            <xs:complexType>
                <xs:sequence>
                    <xs:element maxOccurs="unbounded" name="G" type="SerializedECMGroupTableRow"
/>
                    <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
                    <xs:element maxOccurs="unbounded" name="P"
type="SerializedECMPermissionTableRow" />
                    <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
                    <xs:element maxOccurs="unbounded" name="GTSIds"
type="SerializedECMGroupTermSetIdsTableRow" />
                    <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
                    <xs:element maxOccurs="unbounded" name="TS"
type="SerializedECMTermSetTableRow" />
                    <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
                    <xs:element minOccurs="0" maxOccurs="unbounded" name="RT"
type="SerializedECMRootTermTableRow" />
                    <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
                    <xs:element minOccurs="0" maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>

```



```

    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SearchedTermsRootOptimized">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TS"
type="SerializedECMTermSetTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="T"
type="SerializedECMTermTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="TL"
type="SerializedECMTermLabelTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TD"
type="SerializedECMTermDescriptionTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="TM"
type="SerializedECMTermSetMembershipTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element minOccurs="0" maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element minOccurs="0" maxOccurs="unbounded" name="CT"
type="SerializedECMChildTermTableRow" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SearchedTermsRootStandard">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" name="G" type="SerializedECMGroupTableRow"
/>
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="P"
type="SerializedECMPermissionTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="GTSids"
type="SerializedECMGroupTermSetIdsTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="TS"
type="SerializedECMTermSetTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="RT"
type="SerializedECMRootTermTableRow" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="T"
type="SerializedECMTermTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="TL"
type="SerializedECMTermLabelTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="TD"
type="SerializedECMTermDescriptionTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="TM"
type="SerializedECMTermSetMembershipTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
          <xs:element maxOccurs="unbounded" name="TP"
type="SerializedECMTermPropertyTableRowForRead" />
          <xs:element minOccurs="1" maxOccurs="1" name="NextResult" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

```

                <xs:element maxOccurs="unbounded" name="CT"
type="SerializedECMChildTermTableRow" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="SearchedTermsRoot">
    <xs:sequence>
        <xs:any />
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ChangeDataForAddOrDeleteLanguage">
    <xs:restriction base="LCID" />
</xs:simpleType>
<xs:complexType name="ChangeDataForSetDefaultLanguage">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Data">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="1" maxOccurs="1" name="FromLanguage" type="LCID" />
                    <xs:element minOccurs="1" maxOccurs="1" name="ToLanguage" type="LCID" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ChangeDataForAddTermSetMembership">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Data">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="1" maxOccurs="1" name="PTId" type="InternalIdentifier"
/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element minOccurs="0" maxOccurs="1" name="SourceId"
type="InternalIdentifier" />
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ChangeDataForMoveOrUpdateTermSetMembership">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Data">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="1" maxOccurs="1" name="PTId" type="InternalIdentifier"
/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element minOccurs="1" maxOccurs="1" name="STSID"
type="InternalIdentifier" />
        <xs:element minOccurs="1" maxOccurs="1" name="SPTId"
type="InternalIdentifier" />
        <xs:element minOccurs="0" maxOccurs="unbounded" name="row">
            <xs:complexType>
                <xs:attribute name="TId" type="InternalIdentifier" use="required" />
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ChangeDataForAddTermSet">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="Data">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="0" maxOccurs="1" name="FromTermSetId"
type="InternalIdentifier" />

```



```

        <xs:element minOccurs="1" maxOccurs="1" name="SiteGuid" type="ser:guid" />
        <xs:element minOccurs="1" maxOccurs="1" name="TermSetId" type="ser:guid" />
        <xs:element minOccurs="1" maxOccurs="1" name="TermId" type="ser:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ChangeDataForRestoreTermStore">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Data">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="1" maxOccurs="1" name="IsFullFarmRestore"
type="xs:boolean" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="WorkflowData">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="WorkflowAssociations">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="1" maxOccurs="unbounded" name="WorkflowAssociation">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element minOccurs="1" maxOccurs="1" name="object">
                                    <xs:complexType>
                                        <xs:sequence>
                                            <xs:choice minOccurs="19" maxOccurs="19">
                                                <xs:element minOccurs="16" maxOccurs="16" name="sFld">
                                                    <xs:complexType mixed="true">
                                                        <xs:sequence minOccurs="0" maxOccurs="1">
                                                            <xs:element minOccurs="23" maxOccurs="23" name="sFld">
                                                                <xs:complexType>
                                                                    <xs:simpleContent>
                                                                        <xs:extension base="xs:string">
                                                                            <xs:attribute name="type" type="xs:string"
use="required" />
                                                                        </xs:extension>
                                                                    </xs:simpleContent>
                                                                </xs:complexType>
                                                            </xs:element>
                                                        </xs:sequence>
                                                    <xs:attribute name="type" type="xs:string" use="required"
/>
                                                </xs:element>
                                            </xs:choice>
                                        </xs:sequence>
                                    <xs:attribute name="name" type="xs:string" use="required"
/>
                                </xs:complexType>
                            </xs:element>
                        </xs:complexType>
                    </xs:sequence>
                <xs:element minOccurs="3" maxOccurs="3" name="fld">
                    <xs:complexType>
                        <xs:simpleContent>
                            <xs:extension base="xs:string">
                                <xs:attribute name="type" type="xs:string"
use="required" />
                            </xs:extension>
                        </xs:simpleContent>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:sequence>
    <xs:attribute name="type" type="xs:string" use="required" />
</xs:complexType>
</xs:element>

```

```

        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="GetChangesForListSyncRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="T">
            <xs:complexType>
              <xs:attribute name="a0" type="ser:guid" use="required" />
              <xs:attribute name="a60" type="ser:guid" use="required" />
              <xs:attribute name="a48" type="ser:guid" use="optional" />
              <xs:attribute name="a49" type="ser:guid" use="optional" />
              <xs:attribute name="a50" type="ser:guid" use="optional" />
              <xs:attribute name="a51" type="InternalIdentifier" use="optional" />
              <xs:attribute name="a52" type="mst:ChangedItemType" use="required" />
              <xs:attribute name="a53" type="mst:ChangedOperationType" use="required" />
              <xs:attribute name="a54" type="xs:dateTime" use="required" />
              <xs:attribute name="a55" type="xs:string" use="optional" />
              <xs:attribute name="a62" type="xs:string" use="required" />
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GetChangesForFullListSyncRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="T">
            <xs:complexType>
              <xs:attribute name="a0" type="ser:guid" use="required" />
              <xs:attribute name="a48" type="ser:guid" use="optional" />
              <xs:attribute name="a49" type="ser:guid" use="optional" />
              <xs:attribute name="a50" type="ser:guid" use="optional" />
              <xs:attribute name="a51" type="InternalIdentifier" use="optional" />
              <xs:attribute name="a52" type="mst:ChangedItemType" use="required" />
              <xs:attribute name="a53" type="mst:ChangedOperationType" use="required" />
              <xs:attribute name="a54" type="xs:dateTime" use="required" />
              <xs:attribute name="a55" type="xs:string" use="optional" />
              <xs:attribute name="a56" type="UserName" use="optional" />
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GetSortedChildTermIdsRoot">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Root">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="T">
            <xs:complexType>
              <xs:attribute name="a9" type="ser:guid" use="required" />
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

```

        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
  attributeFormDefault="qualified" elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string" />
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns:duration" />
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="ArrayOfint">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfint" nillable="true" type="tns:ArrayOfint" />
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="tns:ArrayOfguid" />

```

```

    <xs:complexType name="ArrayOfstring">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
    <xs:complexType name="ArrayOfKeyValueOfguidArrayOfguidox8ieOcg">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfguidArrayOfguidox8ieOcg">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="Key" type="ser:guid" />
              <xs:element name="Value" nillable="true" type="tns:ArrayOfguid" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfKeyValueOfguidArrayOfguidox8ieOcg" nillable="true"
type="tns:ArrayOfKeyValueOfguidArrayOfguidox8ieOcg" />
  </xs:schema>
</xs:schema>
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="ChangedItemType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown" />
      <xs:enumeration value="Term" />
      <xs:enumeration value="TermSet" />
      <xs:enumeration value="Group" />
      <xs:enumeration value="TermStore" />
      <xs:enumeration value="Site" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ChangedItemType" nillable="true" type="tns:ChangedItemType" />
  <xs:simpleType name="ChangedOperationType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown" />
      <xs:enumeration value="Add" />
      <xs:enumeration value="Edit" />
      <xs:enumeration value="Delete" />
      <xs:enumeration value="Move" />
      <xs:enumeration value="Copy" />
      <xs:enumeration value="PathChange" />
      <xs:enumeration value="Merge" />
      <xs:enumeration value="Import" />
      <xs:enumeration value="Restore" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ChangedOperationType" nillable="true" type="tns:ChangedOperationType"
/>
  <xs:simpleType name="StringMatchOption">
    <xs:restriction base="xs:string">
      <xs:enumeration value="StartsWith" />
      <xs:enumeration value="ExactMatch" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="StringMatchOption" nillable="true" type="tns:StringMatchOption" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/Message"
elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/Message"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="StreamBody">
    <xs:restriction base="xs:base64Binary" />
  </xs:simpleType>

```

```

</xs:schema>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentTypesync" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint.Taxonomy.ContentTypesync" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="SyndicationStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="Publishing" />
      <xs:enumeration value="TimeStampRetrieving" />
      <xs:enumeration value="PackageRetrieving" />
      <xs:enumeration value="Importing" />
      <xs:enumeration value="ImportingContentType" />
      <xs:enumeration value="ImportingNonContentType" />
      <xs:enumeration value="ContentTypeUnsharing" />
      <xs:enumeration value="PreCheck" />
      <xs:enumeration value="SiteRefreshing" />
      <xs:enumeration value="WorkflowImporting" />
      <xs:enumeration value="ContentTypePolicyDirtyBagUpdating" />
      <xs:enumeration value="ContentTypeSealing" />
      <xs:enumeration value="TimeStampUpdating" />
      <xs:enumeration value="LogTrimming" />
      <xs:enumeration value="LogSynchronizing" />
      <xs:enumeration value="Unpublishing" />
      <xs:enumeration value="Failed" />
      <xs:enumeration value="Succeeded" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SyndicationStatus" nillable="true" type="tns:SyndicationStatus" />
</xs:schema>
</wsdl:types>
<wsdl:message name="IMetadataWebServiceApplication_GetSessionData_InputMessage">
  <wsdl:part name="parameters" element="i0:GetSessionData" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetSessionData_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetSessionDataResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_InputMessage">
  <wsdl:part name="parameters" element="i0:GetSessionDataWithTermStoreId" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetSessionDataWithTermStoreIdResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetGroupByGuid_InputMessage">
  <wsdl:part name="parameters" element="i0:GetGroupByGuid" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetGroupByGuid_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetGroupByGuidResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetGroups_InputMessage">
  <wsdl:part name="parameters" element="i0:GetGroups" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetGroups_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetGroupsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTerm_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTerm" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTerm_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermsInternal_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTermsInternal" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermsInternal_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermsInternalResponse" />
</wsdl:message>

```



```

</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTerms_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTerms" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTerms_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSets_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSets" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSets_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSetsInternal_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetsInternal" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSetsInternal_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetsInternalResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetSortedChildTermIds_InputMessage">
  <wsdl:part name="parameters" element="i0:GetSortedChildTermIds" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetSortedChildTermIds_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetSortedChildTermIdsResponse" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetWithAllTermsLimitedMembership" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetWithAllTermsLimitedMembershipResponse"
/>
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSetWithAllTerms_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetWithAllTerms" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSetWithAllTerms_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetWithAllTermsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetDescendentTerms_InputMessage">
  <wsdl:part name="parameters" element="i0:GetDescendentTerms" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetDescendentTerms_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetDescendentTermsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangesForListSync_InputMessage">
  <wsdl:part name="parameters" element="i0:GetChangesForListSync" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangesForListSync_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetChangesForListSyncResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangesForFullListSync_InputMessage">
  <wsdl:part name="parameters" element="i0:GetChangesForFullListSync" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetChangesForFullListSync_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetChangesForFullListSyncResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChanges_InputMessage">
  <wsdl:part name="parameters" element="i0:GetChanges" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChanges_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetChangesResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChanges2_InputMessage">
  <wsdl:part name="parameters" element="i0:GetChanges2" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChanges2_OutputMessage">

```

```

    <wsdl:part name="parameters" element="i0:GetChanges2Response" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangesOverInterval_InputMessage">
  <wsdl:part name="parameters" element="i0:GetChangesOverInterval" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangesOverInterval_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetChangesOverIntervalResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangeTime_InputMessage">
  <wsdl:part name="parameters" element="i0:GetChangeTime" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangeTime_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetChangeTimeResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermByLabel_InputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermByLabel" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermByLabel_OutputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermByLabelResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermSetByName_InputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermSetByName" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermSetByName_OutputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermSetByNameResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSetsByLabel_InputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetsByLabel" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetTermSetsByLabel_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetTermSetsByLabelResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermSetsByProperty_InputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermSetsByProperty" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermSetsByProperty_OutputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermSetsByPropertyResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermByProperty_InputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermByProperty" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SearchTermByProperty_OutputMessage">
  <wsdl:part name="parameters" element="i0:SearchTermByPropertyResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetSitesContainingTerms_InputMessage">
  <wsdl:part name="parameters" element="i0:GetSitesContainingTerms" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetSitesContainingTerms_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetSitesContainingTermsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangedTermSets_InputMessage">
  <wsdl:part name="parameters" element="i0:GetChangedTermSets" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetChangedTermSets_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetChangedTermSetsResponse" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_SearchAllTermSetsByProperty_InputMessage">
  <wsdl:part name="parameters" element="i0:SearchAllTermSetsByProperty" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_SearchAllTermSetsByProperty_OutputMessage">
  <wsdl:part name="parameters" element="i0:SearchAllTermSetsByPropertyResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_Write_InputMessage">
  <wsdl:part name="parameters" element="i0:Write" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_Write_OutputMessage">
  <wsdl:part name="parameters" element="i0:WriteResponse" />

```

```

</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_WriteUsedTerm_InputMessage">
  <wsdl:part name="parameters" element="i0:WriteUsedTerm" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_WriteUsedTerm_OutputMessage">
  <wsdl:part name="parameters" element="i0:WriteUsedTermResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_WriteUsedTerms_InputMessage">
  <wsdl:part name="parameters" element="i0:WriteUsedTerms" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_WriteUsedTerms_OutputMessage">
  <wsdl:part name="parameters" element="i0:WriteUsedTermsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_WriteClearUsedTerms_InputMessage">
  <wsdl:part name="parameters" element="i0:WriteClearUsedTerms" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_WriteClearUsedTerms_OutputMessage">
  <wsdl:part name="parameters" element="i0:WriteClearUsedTermsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_RemoveUsedTermSet_InputMessage">
  <wsdl:part name="parameters" element="i0:RemoveUsedTermSet" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_RemoveUsedTermSet_OutputMessage">
  <wsdl:part name="parameters" element="i0:RemoveUsedTermSetResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_DeleteServiceSettings_InputMessage">
  <wsdl:part name="parameters" element="i0>DeleteServiceSettings" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_DeleteServiceSettings_OutputMessage">
  <wsdl:part name="parameters" element="i0>DeleteServiceSettingsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetServiceSettings_InputMessage">
  <wsdl:part name="parameters" element="i0:GetServiceSettings" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetServiceSettings_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetServiceSettingsResponse" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetServiceApplicationSettings_InputMessage">
  <wsdl:part name="parameters" element="i0:GetServiceApplicationSettings" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetServiceApplicationSettings_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetServiceApplicationSettingsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SetServiceSettings_InputMessage">
  <wsdl:part name="parameters" element="i0:SetServiceSettings" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_SetServiceSettings_OutputMessage">
  <wsdl:part name="parameters" element="i0:SetServiceSettingsResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_InitiateCacheFlush_InputMessage">
  <wsdl:part name="parameters" element="i0:InitiateCacheFlush" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_InitiateCacheFlush_OutputMessage">
  <wsdl:part name="parameters" element="i0:InitiateCacheFlushResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_PublishPackage_InputMessage">
  <wsdl:part name="parameters" element="i0:PublishPackage" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_PublishPackage_OutputMessage">
  <wsdl:part name="parameters" element="i0:PublishPackageResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_UnpublishPackage_InputMessage">
  <wsdl:part name="parameters" element="i0:UnpublishPackage" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_UnpublishPackage_OutputMessage">
  <wsdl:part name="parameters" element="i0:UnpublishPackageResponse" />
</wsdl:message>

```

```

<wsdl:message name="IMetadataWebServiceApplication_DownloadPackage_InputMessage">
  <wsdl:part name="parameters" element="i0:DownloadPackage" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_DownloadPackage_OutputMessage">
  <wsdl:part name="parameters" element="i0:DownloadPackageResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetUpdateInformation_InputMessage">
  <wsdl:part name="parameters" element="i0:GetUpdateInformation" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetUpdateInformation_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetUpdateInformationResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetApplicationLog_InputMessage">
  <wsdl:part name="parameters" element="i0:GetApplicationLog" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetApplicationLog_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetApplicationLogResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ClearApplicationLog_InputMessage">
  <wsdl:part name="parameters" element="i0:ClearApplicationLog" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ClearApplicationLog_OutputMessage">
  <wsdl:part name="parameters" element="i0:ClearApplicationLogResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_UploadStatus_InputMessage">
  <wsdl:part name="parameters" element="i0:UploadStatus" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_UploadStatus_OutputMessage">
  <wsdl:part name="parameters" element="i0:UploadStatusResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_GetServiceApplicationName_InputMessage">
  <wsdl:part name="parameters" element="i0:GetServiceApplicationName" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetServiceApplicationName_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetServiceApplicationNameResponse" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_InputMessage">
  <wsdl:part name="parameters" element="i0:GetIsServiceApplicationPartitioned" />
</wsdl:message>
<wsdl:message
name="IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_OutputMessage">
  <wsdl:part name="parameters" element="i0:GetIsServiceApplicationPartitionedResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ExportPartitionData_InputMessage">
  <wsdl:part name="parameters" element="i0:ExportPartitionData" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ExportPartitionData_OutputMessage">
  <wsdl:part name="parameters" element="i0:ExportPartitionDataResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ExportPartitionData2_InputMessage">
  <wsdl:part name="parameters" element="i0:ExportPartitionData2" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ExportPartitionData2_OutputMessage">
  <wsdl:part name="parameters" element="i0:ExportPartitionData2Response" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ImportPartitionData_InputMessage">
  <wsdl:part name="parameters" element="i0:ImportPartitionData" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ImportPartitionData_OutputMessage">
  <wsdl:part name="parameters" element="i0:ImportPartitionDataResponse" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ImportPartitionData2_InputMessage">
  <wsdl:part name="parameters" element="i0:ImportPartitionData2" />
</wsdl:message>
<wsdl:message name="IMetadataWebServiceApplication_ImportPartitionData2_OutputMessage">
  <wsdl:part name="parameters" element="i0:ImportPartitionData2Response" />
</wsdl:message>

```

```

    <wsdl:message name="IMetadataWebServiceApplication ClearPartitionData InputMessage">
      <wsdl:part name="parameters" element="i0:ClearPartitionData" />
    </wsdl:message>
    <wsdl:message name="IMetadataWebServiceApplication_ClearPartitionData_OutputMessage">
      <wsdl:part name="parameters" element="i0:ClearPartitionDataResponse" />
    </wsdl:message>
    <wsdl:portType name="IMetadataWebServiceApplication">
      <wsdl:operation name="GetSessionData">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionData" message="i0:IMetadataWebServiceApplication GetSessionData InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionDataResponse" message="i0:IMetadataWebServiceApplication_GetSessionData_OutputMessage" />
        </wsdl:operation>
      <wsdl:operation name="GetSessionDataWithTermStoreId">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionDataWithTermStoreId"
message="i0:IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSessionDataWithTermStoreIdResponse"
message="i0:IMetadataWebServiceApplication_GetSessionDataWithTermStoreId_OutputMessage" />
        </wsdl:operation>
      <wsdl:operation name="GetGroupByGuid">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroupByGuid" message="i0:IMetadataWebServiceApplication GetGroupByGuid InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroupByGuidResponse" message="i0:IMetadataWebServiceApplication_GetGroupByGuid_OutputMessage" />
        </wsdl:operation>
      <wsdl:operation name="GetGroups">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroups" message="i0:IMetadataWebServiceApplication_GetGroups_InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGroupsResponse" message="i0:IMetadataWebServiceApplication_GetGroups OutputMessage" />
        </wsdl:operation>
      <wsdl:operation name="GetTerm">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm" message="i0:IMetadataWebServiceApplication_GetTerm_InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermResponse" message="i0:IMetadataWebServiceApplication_GetTerm OutputMessage" />
        </wsdl:operation>
      <wsdl:operation name="GetTermsInternal">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermsInternal" message="i0:IMetadataWebServiceApplication_GetTermsInternal_InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermsInternalResponse"
message="i0:IMetadataWebServiceApplication_GetTermsInternal OutputMessage" />
        </wsdl:operation>
      <wsdl:operation name="GetTerms">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerms" message="i0:IMetadataWebServiceApplication_GetTerms_InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermsResponse" message="i0:IMetadataWebServiceApplication_GetTerms OutputMessage" />
        </wsdl:operation>
      <wsdl:operation name="GetTermSets">

```

```

    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSets" message="i0:IMetadataWebServiceApplication_GetTermSets_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsResponse" message="i0:IMetadataWebServiceApplication_GetTermSets_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetTermSetsInternal">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsInternal" message="i0:IMetadataWebServiceApplication_GetTermSetsInternal_InputMessage" />
    </wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsInternalResponse" message="i0:IMetadataWebServiceApplication_GetTermSetsInternal_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSortedChildTermIds">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSortedChildTermIds" message="i0:IMetadataWebServiceApplication_GetSortedChildTermIds_InputMessage" />
    </wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSortedChildTermIdsResponse" message="i0:IMetadataWebServiceApplication_GetSortedChildTermIds_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetTermSetWithAllTermsLimitedMembership">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTermsLimitedMembership" message="i0:IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_InputMessage" />
    </wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTermsLimitedMembershipResponse" message="i0:IMetadataWebServiceApplication_GetTermSetWithAllTermsLimitedMembership_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetTermSetWithAllTerms">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTerms" message="i0:IMetadataWebServiceApplication_GetTermSetWithAllTerms_InputMessage" />
    </wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetWithAllTermsResponse" message="i0:IMetadataWebServiceApplication_GetTermSetWithAllTerms_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetDescendentTerms">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetDescendentTerms" message="i0:IMetadataWebServiceApplication_GetDescendentTerms_InputMessage" />
    </wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetDescendentTermsResponse" message="i0:IMetadataWebServiceApplication_GetDescendentTerms_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetChangesForListSync">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForListSync" message="i0:IMetadataWebServiceApplication_GetChangesForListSync_InputMessage" />
    </wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForListSyncResponse" message="i0:IMetadataWebServiceApplication_GetChangesForListSync_OutputMessage" />
    </wsdl:operation>

```

```

    <wsdl:operation name="GetChangesForFullListSync">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForFullListSync"
message="i0:IMetadataWebServiceApplication_GetChangesForFullListSync_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesForFullListSyncResponse"
message="i0:IMetadataWebServiceApplication_GetChangesForFullListSync_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetChanges">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges" message="i0:IMetadataWebServiceApplication_GetChanges_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesResponse" message="i0:IMetadataWebServiceApplication_GetChanges_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetChanges2">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges2" message="i0:IMetadataWebServiceApplication_GetChanges2_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChanges2Response" message="i0:IMetadataWebServiceApplication_GetChanges2_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetChangesOverInterval">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesOverInterval"
message="i0:IMetadataWebServiceApplication_GetChangesOverInterval_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangesOverIntervalResponse"
message="i0:IMetadataWebServiceApplication_GetChangesOverInterval_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetChangeTime">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangeTime" message="i0:IMetadataWebServiceApplication_GetChangeTime_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangeTimeResponse" message="i0:IMetadataWebServiceApplication_GetChangeTime_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SearchTermByLabel">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByLabel" message="i0:IMetadataWebServiceApplication_SearchTermByLabel_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByLabelResponse"
message="i0:IMetadataWebServiceApplication_SearchTermByLabel_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SearchTermSetByName">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetByName" message="i0:IMetadataWebServiceApplication_SearchTermSetByName_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetByNameResponse"
message="i0:IMetadataWebServiceApplication_SearchTermSetByName_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetTermSetsByLabel">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsByLabel" message="i0:IMetadataWebServiceApplication_GetTermSetsByLabel_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTer

```

```

mSetsByLabelResponse"
message="i0:IMetadataWebServiceApplication GetTermSetsByLabel OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="SearchTermSetsByProperty">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
TermSetsByProperty"
message="i0:IMetadataWebServiceApplication SearchTermSetsByProperty InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
TermSetsByPropertyResponse"
message="i0:IMetadataWebServiceApplication_SearchTermSetsByProperty_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SearchTermByProperty">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
TermByProperty" message="i0:IMetadataWebServiceApplication_SearchTermByProperty_InputMessage"
/>
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
TermByPropertyResponse"
message="i0:IMetadataWebServiceApplication SearchTermByProperty OutputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetSitesContainingTerms">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSit
esContainingTerms"
message="i0:IMetadataWebServiceApplication_GetSitesContainingTerms_InputMessage" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSit
esContainingTermsResponse"
message="i0:IMetadataWebServiceApplication_GetSitesContainingTerms_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetChangedTermSets">
          <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetCha
ngedTermSets" message="i0:IMetadataWebServiceApplication_GetChangedTermSets_InputMessage" />
          <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetCha
ngedTermSetsResponse"
message="i0:IMetadataWebServiceApplication_GetChangedTermSets_OutputMessage" />
          </wsdl:operation>
          <wsdl:operation name="SearchAllTermSetsByProperty">
            <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
AllTermSetsByProperty"
message="i0:IMetadataWebServiceApplication_SearchAllTermSetsByProperty_InputMessage" />
            <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/Search
AllTermSetsByPropertyResponse"
message="i0:IMetadataWebServiceApplication_SearchAllTermSetsByProperty_OutputMessage" />
            </wsdl:operation>
            <wsdl:operation name="Write">
              <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
" message="i0:IMetadataWebServiceApplication Write InputMessage" />
              <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
Response" message="i0:IMetadataWebServiceApplication_Write_OutputMessage" />
              </wsdl:operation>
              <wsdl:operation name="WriteUsedTerm">
                <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
UsedTerm" message="i0:IMetadataWebServiceApplication WriteUsedTerm InputMessage" />
                <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
UsedTermResponse" message="i0:IMetadataWebServiceApplication_WriteUsedTerm_OutputMessage" />
                </wsdl:operation>
                <wsdl:operation name="WriteUsedTerms">

```



```

    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
UsedTerms" message="i0:IMetadataWebServiceApplication_WriteUsedTerms_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
UsedTermsResponse" message="i0:IMetadataWebServiceApplication WriteUsedTerms OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="WriteClearUsedTerms">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
ClearUsedTerms" message="i0:IMetadataWebServiceApplication_WriteClearUsedTerms_InputMessage"
/>
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write
ClearUsedTermsResponse"
message="i0:IMetadataWebServiceApplication WriteClearUsedTerms OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveUsedTermSet">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Remov
eUsedTermSet" message="i0:IMetadataWebServiceApplication_RemoveUsedTermSet_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Remov
eUsedTermSetResponse"
message="i0:IMetadataWebServiceApplication_RemoveUsedTermSet_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="DeleteServiceSettings">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/DeleteServiceSettings"
message="i0:IMetadataWebServiceApplication_DeleteServiceSettings_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/DeleteServiceSettingsResponse"
message="i0:IMetadataWebServiceApplication DeleteServiceSettings OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetServiceSettings">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/GetServiceSettings"
message="i0:IMetadataWebServiceApplication GetServiceSettings InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/GetServiceSettingsResponse"
message="i0:IMetadataWebServiceApplication GetServiceSettings OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetServiceApplicationSettings">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/GetServiceApplicationSettings"
message="i0:IMetadataWebServiceApplication GetServiceApplicationSettings InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/GetServiceApplicationSettingsResponse"
message="i0:IMetadataWebServiceApplication_GetServiceApplicationSettings_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetServiceSettings">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/SetServiceSettings"
message="i0:IMetadataWebServiceApplication_SetServiceSettings_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/SetServiceSettingsResponse"
message="i0:IMetadataWebServiceApplication_SetServiceSettings_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="InitiateCacheFlush">

```

```

    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/InitiateCacheFlush"
message="i0:IMetadataWebServiceApplication_InitiateCacheFlush_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/InitiateCacheFlushResponse"
message="i0:IMetadataWebServiceApplication_InitiateCacheFlush_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="PublishPackage">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/PublishPackage" message="i0:IMetadataWebServiceApplication_PublishPackage_InputMessage" />
    </wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/PublishPackageResponse"
message="i0:IMetadataWebServiceApplication_PublishPackage_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="UnpublishPackage">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UnpublishPackage"
message="i0:IMetadataWebServiceApplication_UnpublishPackage_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UnpublishPackageResponse"
message="i0:IMetadataWebServiceApplication_UnpublishPackage_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="DownloadPackage">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DownloadPackage"
message="i0:IMetadataWebServiceApplication_DownloadPackage_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DownloadPackageResponse"
message="i0:IMetadataWebServiceApplication_DownloadPackage_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetUpdateInformation">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetUpdateInformation"
message="i0:IMetadataWebServiceApplication_GetUpdateInformation_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetUpdateInformationResponse"
message="i0:IMetadataWebServiceApplication_GetUpdateInformation_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetApplicationLog">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetApplicationLog"
message="i0:IMetadataWebServiceApplication_GetApplicationLog_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetApplicationLogResponse"
message="i0:IMetadataWebServiceApplication_GetApplicationLog_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="ClearApplicationLog">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearApplicationLog"
message="i0:IMetadataWebServiceApplication_ClearApplicationLog_InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearApplicationLogResponse"
message="i0:IMetadataWebServiceApplication_ClearApplicationLog_OutputMessage" />
    </wsdl:operation>

```

```

    <wsdl:operation name="UploadStatus">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UploadStatus" message="i0:IMetadataWebServiceApplication_UploadStatus_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UploadStatusResponse"
message="i0:IMetadataWebServiceApplication_UploadStatus_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetServiceApplicationName">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationName"
message="i0:IMetadataWebServiceApplication_GetServiceApplicationName_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationNameResponse"
message="i0:IMetadataWebServiceApplication_GetServiceApplicationName_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetIsServiceApplicationPartitioned">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetIsServiceApplicationPartitioned"
message="i0:IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_InputMessage"
/>
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetIsServiceApplicationPartitionedResponse"
message="i0:IMetadataWebServiceApplication_GetIsServiceApplicationPartitioned_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="ExportPartitionData">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData"
message="i0:IMetadataWebServiceApplication_ExportPartitionData_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionDataResponse"
message="i0:IMetadataWebServiceApplication_ExportPartitionData_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="ExportPartitionData2">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData2"
message="i0:IMetadataWebServiceApplication_ExportPartitionData2_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData2Response"
message="i0:IMetadataWebServiceApplication_ExportPartitionData2_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="ImportPartitionData">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData"
message="i0:IMetadataWebServiceApplication_ImportPartitionData_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionDataResponse"
message="i0:IMetadataWebServiceApplication_ImportPartitionData_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="ImportPartitionData2">
      <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData2"
message="i0:IMetadataWebServiceApplication_ImportPartitionData2_InputMessage" />
      <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication

```

```

tion/ImportPartitionData2Response"
message="i0:IMetadataWebServiceApplication ImportPartitionData2 OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="ClearPartitionData">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/ClearPartitionData"
message="i0:IMetadataWebServiceApplication ClearPartitionData InputMessage" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplica
tion/ClearPartitionDataResponse"
message="i0:IMetadataWebServiceApplication_ClearPartitionData_OutputMessage" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="CustomBinding_IMetadataWebServiceApplication"
type="i0:IMetadataWebServiceApplication">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="GetSessionData">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSess
ionData" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSessionDataWithTermStoreId">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSess
ionDataWithTermStoreId" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupByGuid">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGrou
pByGuid" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroups">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetGrou
ps" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetTerm">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

```

```

        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetTermsInternal">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
sInternal" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetTerms">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
s" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetTermSets">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
Sets" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetTermSetsInternal">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
SetsInternal" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSortedChildTermIds">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSort
edChildTermIds" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetTermSetWithAllTermsLimitedMembership">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
SetWithAllTermsLimitedMembership" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetTermSetWithAllTerms">

```

```

    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTerm
SetWithAllTerms" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetDescendentTerms">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetDesc
endentTerms" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetChangesForListSync">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChan
gesForListSync" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetChangesForFullListSync">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChan
gesForFullListSync" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetChanges">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChan
ges" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetChanges2">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChan
ges2" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetChangesOverInterval">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChan
gesOverInterval" style="document" />

```

```

    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetChangeTime">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChangeTime" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="SearchTermByLabel">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByLabel" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="SearchTermSetByName">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetByName" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetTermSetsByLabel">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetTermSetsByLabel" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="SearchTermSetsByProperty">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermSetsByProperty" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="SearchTermByProperty">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchTermByProperty" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>

```

```

        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSitesContainingTerms">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetSite
sContainingTerms" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
    <wsdl:operation name="GetChangedTermSets">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/GetChan
gedTermSets" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
    <wsdl:operation name="SearchAllTermSetsByProperty">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadOnly/SearchA
llTermSetsByProperty" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
    <wsdl:operation name="Write">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/Write"
style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
    <wsdl:operation name="WriteUsedTerm">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteU
sedTerm" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
    <wsdl:operation name="WriteUsedTerms">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteU
sedTerms" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:output>
    </wsdl:output>

```



```

</wsdl:operation>
<wsdl:operation name="WriteClearUsedTerms">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/WriteClearUsedTerms" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RemoveUsedTermSet">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IDataAccessReadWrite/RemoveUsedTermSet" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="DeleteServiceSettings">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DeleteServiceSettings" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetServiceSettings">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceSettings" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetServiceApplicationSettings">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationSettings" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SetServiceSettings">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/SetServiceSettings" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="InitiateCacheFlush">

```

```

    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/InitiateCacheFlush" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="PublishPackage">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/PublishPackage" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="UnpublishPackage">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UnpublishPackage" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="DownloadPackage">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/DownloadPackage" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetUpdateInformation">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetUpdateInformation" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetApplicationLog">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetApplicationLog" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ClearApplicationLog">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearApplicationLog" style="document" />

```

```

    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="UploadStatus">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/UploadStatus" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetServiceApplicationName">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetServiceApplicationName" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetIsServiceApplicationPartitioned">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/GetIsServiceApplicationPartitioned" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="ExportPartitionData">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="ExportPartitionData2">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ExportPartitionData2" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="ImportPartitionData">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>

```

```
<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="ImportPartitionData2">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ImportPartitionData2" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ClearPartitionData">
  <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/taxonomy/soap/IMetadataWebServiceApplication/ClearPartitionData" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
```

Preliminary

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 updates to those products.

- Microsoft SharePoint Server 2010
- Microsoft SharePoint Server 2013
- Microsoft SharePoint Server 2016
- Microsoft SharePoint Server 2019
- Microsoft SharePoint Server Subscription Edition Preview

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

[<1> Section 2.2.4](#): This type is not supported in SharePoint Server 2010.

[<2> Section 2.2.4](#): SharePoint Server 2010, SharePoint Server 2013: The Microsoft implementation stores this log for informational purposes for administrators to view.

[<3> Section 2.2.4](#): This type is available only in SharePoint Server 2013.

[<4> Section 2.2.4.12](#): SharePoint Server 2010, SharePoint Server 2013: The Microsoft implementation stores this log for informational purposes for administrators to view.

[<5> Section 2.2.4.22](#): This type is not supported in SharePoint Server 2010.

[<6> Section 2.2.4.36](#): This attribute is not supported in SharePoint Server 2010.

[<7> Section 2.2.4.43](#): This type is not supported in SharePoint Server 2010.

[<8> Section 2.2.4.45](#): This parameter is only applicable to SharePoint Server 2013.

[<9> Section 2.2.4.47](#): This type is available only in SharePoint Server 2013.

[<10> Section 3.1.4](#): Microsoft SharePoint Server 2010: This operation is not available.

[<11> Section 3.1.4](#): This message is applicable only to SharePoint Server 2013.

[<12> Section 3.1.4](#): SharePoint Server 2010: This operation is not available.

[<13> Section 3.1.4](#): SharePoint Server 2010: This operation is not available.

[<14> Section 3.1.4](#): SharePoint Server 2010: This operation is not available.

[<15> Section 3.1.4](#): SharePoint Server 2010: This operation is not available.

[<16> Section 3.1.4](#): This operation is available only in SharePoint Server 2013.

[<17> Section 3.1.4](#): This operation is not supported in SharePoint Server 2010.

[<18> Section 3.1.4.19.2.1](#): SharePoint Server 2010: This attribute is not available.

- [<19> Section 3.1.4.19.2.1](#): SharePoint Server 2010: This attribute is not available.
- [<20> Section 3.1.4.25](#): SharePoint Server 2010, SharePoint Server 2013: The Microsoft implementation does not include **terms** that have been deprecated or marked as not available for tagging.
- [<21> Section 3.1.4.40.3.3](#): This attribute is not supported in SharePoint Server 2010.
- [<22> Section 3.1.4.40.3.3](#): This attribute is not supported in SharePoint Server 2010.
- [<23> Section 3.1.4.40.3.6](#): This attribute is not supported in SharePoint Server 2010.
- [<24> Section 3.1.4.44](#): This message is applicable only to SharePoint Server 2013.
- [<25> Section 3.1.4.45](#): This operation is not supported in SharePoint Server 2010.
- [<26> Section 3.1.4.46](#): This operation is available only in SharePoint Server 2013.
- [<27> Section 3.1.4.47](#): SharePoint Server 2010: This operation is not available.
- [<28> Section 3.1.4.48](#): SharePoint Server 2010: This operation is not available.
- [<29> Section 3.1.4.49](#): SharePoint Server 2010: This operation is not available.
- [<30> Section 3.1.4.50](#): SharePoint Server 2010: This operation is not available.
- [<31> Section 3.1.4.51](#): SharePoint Server 2010: This operation is not available.

8 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

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.
- A document revision that captures changes to protocol functionality.

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 **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

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

Section	Description	Revision class
Z Appendix B: Product Behavior	Updated list of supported products.	Major

9 Index

A

[Abstract data model](#)
[server](#) 68
[Applicability](#) 25
[ArrayOfguid complex type](#) 31
[ArrayOfint complex type](#) 31
[Attribute groups](#) 67
[Attributes](#) 67

C

[Capability negotiation](#) 25
[Change tracking](#) 239
[ChangeDataForAddOrDeleteLanguage simple type](#) 61
[ChangeDataForAddTermSet complex type](#) 31
[ChangeDataForAddTermSetMembership complex type](#) 31
[ChangeDataForAddUsedTerm complex type](#) 32
[ChangeDataForDeleteTerm complex type](#) 32
[ChangeDataForMergeTerm complex type](#) 33
[ChangeDataForMoveOrUpdateTermSetMembership complex type](#) 33
[ChangeDataForRestoreTermStore complex type](#) 34
[ChangeDataForSetDefaultLanguage complex type](#) 34
[ChangeDataForUpdateTerm complex type](#) 57
[ChangeDataForUpdateTermSet complex type](#) 35
[ChangedItemType simple type](#) 65
[ChangedOperationType simple type](#) 66
[CommandAction simple type](#) 61
[CommandActionBasic simple type](#) 61
[Complex types](#) 27
[ArrayOfguid](#) 31
[ArrayOfint](#) 31
[ChangeDataForAddTermSet](#) 31
[ChangeDataForAddTermSetMembership](#) 31
[ChangeDataForAddUsedTerm](#) 32
[ChangeDataForDeleteTerm](#) 32
[ChangeDataForMergeTerm](#) 33
[ChangeDataForMoveOrUpdateTermSetMembership](#) 33
[ChangeDataForRestoreTermStore](#) 34
[ChangeDataForSetDefaultLanguage](#) 34
[ChangeDataForUpdateTerm](#) 57
[ChangeDataForUpdateTermSet](#) 35
[GetApplicationLogRoot](#) 35
[GetChangesRoot](#) 36
[GetGroupsAndTermSetsRoot](#) 36
[GetGroupsRoot](#) 37
[GetServiceSettingsRoot](#) 38
[GetSessionDataRoot](#) 58
[GetTermRoot](#) 38
[GetUpdateInformationRoot](#) 39
[KeywordTermSetIdIndicator](#) 59
[NewPartitionIndicator](#) 59
[OrphanedTermSetIdIndicator](#) 59
[SearchedTermsRoot](#) 40
[SearchedTermsRootOptimized](#) 40
[SearchedTermsRootStandard](#) 41
[SerializedECMChangeLogTableRow](#) 42
[SerializedECMChangeLogTableTimeOnlyRow](#) 58

[SerializedECMChildTermTableRow](#) 44
[SerializedECMGroupIdsTableRow](#) 60
[SerializedECMGroupTableRow](#) 44
[SerializedECMGroupTermSetIdsTableRow](#) 46
[SerializedECMLanguageTableRow](#) 46
[SerializedECMPermissionTableRow](#) 46
[SerializedECMRootTermTableRow](#) 47
[SerializedECMServiceSettingsTableRow](#) 47
[SerializedECMTermDescriptionTableRowBase](#) 47
[SerializedECMTermDescriptionTableRowForRead](#) 48
[SerializedECMTermLabelTableRowBase](#) 48
[SerializedECMTermLabelTableRowForRead](#) 49
[SerializedECMTermPropertyTableRowBase](#) 49
[SerializedECMTermPropertyTableRowForRead](#) 49
[SerializedECMTermSetMembershipTableRowBase](#) 50
[SerializedECMTermSetMembershipTableRowForRead](#) 50
[SerializedECMTermSetTableRow](#) 51
[SerializedECMTermTableRowForRead](#) 53
[ServiceSettings](#) 54
[ServiceSettingsSettingsXmlDoc](#) 54
[SystemGroupIdIndicator](#) 60
[WorkflowData](#) 54
[ContentTypeId simple type](#) 62

D

[Data model - abstract](#)
[server](#) 68

E

[Events](#)
[local - server](#) 179
[timer - server](#) 179
[Examples](#) 180

F

[Fields - vendor-extensible](#) 25
[Full WSDL](#) 187

G

[GetApplicationLogRoot complex type](#) 35
[GetChangesRoot complex type](#) 36
[GetGroupsAndTermSetsRoot complex type](#) 36
[GetGroupsRoot complex type](#) 37
[GetServiceSettingsRoot complex type](#) 38
[GetSessionDataRoot complex type](#) 58
[GetTermRoot complex type](#) 38
[GetUpdateInformationRoot complex type](#) 39
[Glossary](#) 20
[Groups](#) 67
[GroupType simple type](#) 62
[guid simple type](#) 63

I

[Implementer - security considerations](#) 186
[Index of security parameters](#) 186
[Informative references](#) 24
Initialization
 [server](#) 69
[InternalIdentifier simple type](#) 63
[Introduction](#) 20

K

[KeywordTermSetIdIndicator complex type](#) 59

L

[LCID simple type](#) 63
Local events
 [server](#) 179

M

Message processing
 [server](#) 69
Messages
 [ArrayOfguid complex type](#) 31
 [ArrayOfint complex type](#) 31
 [attribute groups](#) 67
 [attributes](#) 67
 [ChangeDataForAddOrDeleteLanguage simple type](#) 61
 [ChangeDataForAddTermSet complex type](#) 31
 [ChangeDataForAddTermSetMembership complex type](#) 31
 [ChangeDataForAddUsedTerm complex type](#) 32
 [ChangeDataForDeleteTerm complex type](#) 32
 [ChangeDataForMergeTerm complex type](#) 33
 [ChangeDataForMoveOrUpdateTermSetMembership complex type](#) 33
 [ChangeDataForRestoreTermStore complex type](#) 34
 [ChangeDataForSetDefaultLanguage complex type](#) 34
 [ChangeDataForUpdateTerm complex type](#) 57
 [ChangeDataForUpdateTermSet complex type](#) 35
 [ChangedItemType simple type](#) 65
 [ChangedOperationType simple type](#) 66
 [CommandAction simple type](#) 61
 [CommandActionBasic simple type](#) 61
 [complex types](#) 27
 [ContentTypeId simple type](#) 62
 [elements](#) 27
 [enumerated](#) 27
 [GetApplicationLogRoot complex type](#) 35
 [GetChangesRoot complex type](#) 36
 [GetGroupsAndTermSetsRoot complex type](#) 36
 [GetGroupsRoot complex type](#) 37
 [GetServiceSettingsRoot complex type](#) 38
 [GetSessionDataRoot complex type](#) 58
 [GetTermRoot complex type](#) 38
 [GetUpdateInformationRoot complex type](#) 39
 [groups](#) 67
 [GroupType simple type](#) 62
 [guid simple type](#) 63
 [InternalIdentifier simple type](#) 63
 [KeywordTermSetIdIndicator complex type](#) 59
 [LCID simple type](#) 63
 [namespaces](#) 26

[NewPartitionIndicator complex type](#) 59
[OrphanedTermSetIdIndicator complex type](#) 59
[Rights simple type](#) 63
[SearchedTermsRoot complex type](#) 40
[SearchedTermsRootOptimized complex type](#) 40
[SearchedTermsRootStandard complex type](#) 41
[SerializedECMChangeLogTableRow complex type](#) 42
[SerializedECMChangeLogTableTimeOnlyRow complex type](#) 58
[SerializedECMChildTermTableRow complex type](#) 44
[SerializedECMGroupIdsTableRow complex type](#) 60
[SerializedECMGroupTableRow complex type](#) 44
[SerializedECMGroupTermSetIdsTableRow complex type](#) 46
[SerializedECMLanguageTableRow complex type](#) 46
[SerializedECMPermissionTableRow complex type](#) 46
[SerializedECMRootTermTableRow complex type](#) 47
[SerializedECMServiceSettingsTableRow complex type](#) 47
[SerializedECMTermDescriptionTableRowBase complex type](#) 47
[SerializedECMTermDescriptionTableRowForRead complex type](#) 48
[SerializedECMTermLabelTableRowBase complex type](#) 48
[SerializedECMTermLabelTableRowForRead complex type](#) 49
[SerializedECMTermPropertyTableRowBase complex type](#) 49
[SerializedECMTermPropertyTableRowForRead complex type](#) 49
[SerializedECMTermSetMembershipTableRowBase complex type](#) 50
[SerializedECMTermSetMembershipTableRowForRead complex type](#) 50
[SerializedECMTermSetTableRow complex type](#) 51
[SerializedECMTermTableRowForRead complex type](#) 53
[ServiceSettings complex type](#) 54
[ServiceSettingsSettingsXmlDoc complex type](#) 54
[simple types](#) 60
[StreamBody simple type](#) 64
[StringMatchOption simple type](#) 64
[syntax](#) 26
[SystemGroupIdIndicator complex type](#) 60
[TermSetType simple type](#) 64
[transport](#) 26
[UserName simple type](#) 65
[WorkflowData complex type](#) 54

N

[Namespaces](#) 26
[NewPartitionIndicator complex type](#) 59
[Normative references](#) 23

O

Operations
 [ClearApplicationLog](#) 72
 [ClearPartitionData](#) 73
 [DeleteServiceSettings](#) 75

- [DownloadPackage](#) 76
- [ExportPartitionData](#) 78
- [ExportPartitionData2](#) 168
- [GetApplicationLog](#) 80
- [GetChangedTermSets](#) 160
- [GetChanges](#) 81
- [GetChanges2](#) 169
- [GetChangesForFullListSync](#) 83
- [GetChangesForListSync](#) 86
- [GetChangesOverInterval](#) 89
- [GetChangeTime](#) 91
- [GetDescendentTerms](#) 93
- [GetGroupByGuid](#) 95
- [GetGroups](#) 97
- [GetIsServiceApplicationPartitioned](#) 98
- [GetServiceApplicationName](#) 100
- [GetServiceApplicationSettings](#) 102
- [GetServiceSettings](#) 103
- [GetSessionData](#) 105
- [GetSessionDataWithTermStoreId](#) 171
- [GetSitesContainingTerms](#) 108
- [GetSortedChildTermIds](#) 110
- [GetTerm](#) 113
- [GetTerms](#) 114
- [GetTermSets](#) 116
- [GetTermSetsByLabel](#) 118
- [GetTermSetsInternal](#) 120
- [GetTermSetWithAllTerms](#) 122
- [GetTermSetWithAllTermsLimitedMembership](#) 175
- [GetTermsInternal](#) 124
- [GetUpdateInformation](#) 126
- [ImportPartitionData](#) 127
- [ImportPartitionData2](#) 177
- [InitiateCacheFlush](#) 129
- [PublishPackage](#) 131
- [RemoveUsedTermSet](#) 132
- [SearchAllTermSetsByProperty](#) 165
- [SearchTermByLabel](#) 134
- [SearchTermByProperty](#) 137
- [SearchTermSetName](#) 140
- [SearchTermSetsByProperty](#) 162
- [SetServiceSettings](#) 142
- [UnpublishPackage](#) 143
- [UploadStatus](#) 145
- [Write](#) 148
- [WriteClearUsedTerms](#) 155
- [WriteUsedTerm](#) 156
- [WriteUsedTerms](#) 158
- [OrphanedTermSetIdIndicator](#) complex type 59
- [Overview \(synopsis\)](#) 24

P

- [Parameters - security index](#) 186
- [Preconditions](#) 25
- [Prerequisites](#) 25
- [Product behavior](#) 237
- Protocol Details
 - [overview](#) 68

R

- [References](#) 23
 - [informative](#) 24
 - [normative](#) 23

- [Relationship to other protocols](#) 24
- [Rights](#) simple type 63

S

- [SearchedTermsRoot](#) complex type 40
- [SearchedTermsRootOptimized](#) complex type 40
- [SearchedTermsRootStandard](#) complex type 41
- Security
 - [implementer considerations](#) 186
 - [parameter index](#) 186
- Sequencing rules
 - [server](#) 69
- [SerializedECMChangeLogTableRow](#) complex type 42
- [SerializedECMChangeLogTableTimeOnlyRow](#) complex type 58
- [SerializedECMChildTermTableRow](#) complex type 44
- [SerializedECMGroupIdsTableRow](#) complex type 60
- [SerializedECMGroupTableRow](#) complex type 44
- [SerializedECMGroupTermSetIdsTableRow](#) complex type 46
- [SerializedECMLanguageTableRow](#) complex type 46
- [SerializedECMPermissionTableRow](#) complex type 46
- [SerializedECMRootTermTableRow](#) complex type 47
- [SerializedECMServiceSettingsTableRow](#) complex type 47
- [SerializedECMTermDescriptionTableRowBase](#) complex type 47
- [SerializedECMTermDescriptionTableRowForRead](#) complex type 48
- [SerializedECMTermLabelTableRowBase](#) complex type 48
- [SerializedECMTermLabelTableRowForRead](#) complex type 49
- [SerializedECMTermPropertyTableRowBase](#) complex type 49
- [SerializedECMTermPropertyTableRowForRead](#) complex type 49
- [SerializedECMTermSetMembershipTableRowBase](#) complex type 50
- [SerializedECMTermSetMembershipTableRowForRead](#) complex type 50
- [SerializedECMTermSetTableRow](#) complex type 51
- [SerializedECMTermTableRowForRead](#) complex type 53
- Server
 - [abstract data model](#) 68
 - [ClearApplicationLog](#) operation 72
 - [ClearPartitionData](#) operation 73
 - [DeleteServiceSettings](#) operation 75
 - [DownloadPackage](#) operation 76
 - [ExportPartitionData](#) operation 78
 - [ExportPartitionData2](#) operation 168
 - [GetApplicationLog](#) operation 80
 - [GetChangedTermSets](#) operation 160
 - [GetChanges](#) operation 81
 - [GetChanges2](#) operation 169
 - [GetChangesForFullListSync](#) operation 83
 - [GetChangesForListSync](#) operation 86
 - [GetChangesOverInterval](#) operation 89
 - [GetChangeTime](#) operation 91
 - [GetDescendentTerms](#) operation 93
 - [GetGroupByGuid](#) operation 95
 - [GetGroups](#) operation 97
 - [GetIsServiceApplicationPartitioned](#) operation 98

[GetServiceApplicationName operation](#) 100
[GetServiceApplicationSettings operation](#) 102
[GetServiceSettings operation](#) 103
[GetSessionData operation](#) 105
[GetSessionDataWithTermStoreId operation](#) 171
[GetSitesContainingTerms operation](#) 108
[GetSortedChildTermIds operation](#) 110
[GetTerm operation](#) 113
[GetTerms operation](#) 114
[GetTermSets operation](#) 116
[GetTermSetsByLabel operation](#) 118
[GetTermSetsInternal operation](#) 120
[GetTermSetWithAllTerms operation](#) 122
[GetTermSetWithAllTermsLimitedMembership operation](#) 175
[GetTermsInternal operation](#) 124
[GetUpdateInformation operation](#) 126
[ImportPartitionData operation](#) 127
[ImportPartitionData2 operation](#) 177
[initialization](#) 69
[InitiateCacheFlush operation](#) 129
[local events](#) 179
[message processing](#) 69
[PublishPackage operation](#) 131
[RemoveUsedTermSet operation](#) 132
[SearchAllTermSetsByProperty operation](#) 165
[SearchTermByLabel operation](#) 134
[SearchTermByProperty operation](#) 137
[SearchTermSetByName operation](#) 140
[SearchTermSetsByProperty operation](#) 162
[sequencing rules](#) 69
[SetServiceSettings operation](#) 142
[timer events](#) 179
[timers](#) 69
[UnpublishPackage operation](#) 143
[UploadStatus operation](#) 145
[Write operation](#) 148
[WriteClearUsedTerms operation](#) 155
[WriteUsedTerm operation](#) 156
[WriteUsedTerms operation](#) 158
[ServiceSettings complex type](#) 54
[ServiceSettingsSettingsXmlDoc complex type](#) 54
[Simple types](#) 60
[ChangeDataForAddOrDeleteLanguage](#) 61
[ChangedItemType](#) 65
[ChangedOperationType](#) 66
[CommandAction](#) 61
[CommandActionBasic](#) 61
[ContentTypeId](#) 62
[GroupType](#) 62
[guid](#) 63
[InternalIdentifier](#) 63
[LCID](#) 63
[Rights](#) 63
[StreamBody](#) 64
[StringMatchOption](#) 64
[TermSetType](#) 64
[UserName](#) 65
[Standards assignments](#) 25
[StreamBody simple type](#) 64
[StringMatchOption simple type](#) 64
[Syntax](#)
[messages - overview](#) 26
[SystemGroupIdIndicator complex type](#) 60

T

[TermSetType simple type](#) 64
[Timer events](#)
[server](#) 179
[Timers](#)
[server](#) 69
[Tracking changes](#) 239
[Transport](#) 26
[Types](#)
[complex](#) 27
[simple](#) 60

U

[UserName simple type](#) 65

V

[Vendor-extensible fields](#) 25
[Versioning](#) 25

W

[WorkflowData complex type](#) 54
[WSDL](#) 187