

[MS-WMCSOM]: Work Management Client-Side Object Model Protocol

Intellectual Property Rights Notice for Open Specifications Documentation

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

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

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

Revision Summary

Date	Revision History	Revision Class	Comments
01/20/2012	0.1	New	Released new document.
04/11/2012	0.1	No change	No changes to the meaning, language, or formatting of the technical content.
07/16/2012	0.2	Major	Significantly changed the technical content.
09/12/2012	0.2	No change	No changes to the meaning, language, or formatting of the technical content.
10/08/2012	1.0	Major	Significantly changed the technical content.
02/11/2013	2.0	Major	Significantly changed the technical content.
07/30/2013	2.1	Minor	Clarified the meaning of the technical content.
11/18/2013	2.1	No change	No changes to the meaning, language, or formatting of the technical content.
02/10/2014	2.1	No change	No changes to the meaning, language, or formatting of the technical content.
04/30/2014	2.2	Minor	Clarified the meaning of the technical content.
07/31/2014	2.3	Minor	Clarified the meaning of the technical content.
10/30/2014	2.3	No change	No changes to the meaning, language, or formatting of the technical content.

Table of Contents

1 Introduction	18
1.1 Glossary	18
1.2 References	18
1.2.1 Normative References	18
1.2.2 Informative References	19
1.3 Overview	19
1.4 Relationship to Other Protocols	19
1.5 Prerequisites/Preconditions	19
1.6 Applicability Statement	20
1.7 Versioning and Capability Negotiation	20
1.8 Vendor-Extensible Fields	20
1.9 Standards Assignments	20
2 Messages	21
2.1 Transport	21
2.2 Message Syntax	21
2.2.1 Common Exceptions	21
3 Protocol Details	22
3.1 Server Details	22
3.1.1 Abstract Data Model	22
3.1.2 Timers	22
3.1.3 Initialization	22
3.1.4 Higher-Layer Triggered Events	22
3.1.5 Message Processing Events and Sequencing Rules	22
3.1.5.1 Microsoft.SharePoint.WorkManagement.Client.BaseSession	22
3.1.5.1.1 Properties	22
3.1.5.1.1.1 Scalar Properties	22
3.1.5.1.1.2 ObjectPath Properties	22
3.1.5.1.2 Methods	23
3.1.5.1.2.1 Scalar Methods	23
3.1.5.1.2.1.1 BeginExchangeSync	23
3.1.5.1.2.1.2 IsExchangeJobPending	23
3.1.5.1.2.2 ObjectPath Methods	23
3.1.5.1.2.2.1 AddAttributeToTask	23
3.1.5.1.2.2.2 BeginCacheRefresh	23
3.1.5.1.2.2.3 CreateTask	23
3.1.5.1.2.2.4 DeleteTask	24
3.1.5.1.2.2.5 GetRefreshHistory	24
3.1.5.1.2.2.6 GetRefreshStatus	25
3.1.5.1.2.2.7 PinTask	25
3.1.5.1.2.2.8 RemoveAttributeFromTask	25
3.1.5.1.2.2.9 RemovePinOnTask	25
3.1.5.1.2.2.10 UpdateTaskWithLocalizedValue	25
3.1.5.1.2.2.11 GetCalloutInfo	26
3.1.5.1.2.2.12 ReadAllNonTaskData	26
3.1.5.1.2.2.13 RefreshSingleTask	26
3.1.5.1.2.2.14 GetRefreshHealthInfo	26
3.1.5.1.2.2.15 CreatePersonalTaskAndPromoteToProviderTask	26
3.1.5.1.2.2.16 PromotePersonalTaskToProviderTaskInLocation	27

3.1.5.2	Microsoft.SharePoint.WorkManagement.Client.BooleanCompareType	28
3.1.5.2.1	Field Values	28
3.1.5.2.1.1	NoValue	28
3.1.5.2.1.2	IsTrue	28
3.1.5.2.1.3	IsFalse	28
3.1.5.3	Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion	28
3.1.5.3.1	Properties	28
3.1.5.3.1.1	Scalar Properties	28
3.1.5.3.1.1.1	CompareType	28
3.1.5.3.1.2	ObjectPath Properties	28
3.1.5.3.2	Methods	29
3.1.5.3.2.1	Scalar Methods	29
3.1.5.3.2.2	ObjectPath Methods	29
3.1.5.3.2.2.1	CSOM Constructor	29
3.1.5.4	Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult	29
3.1.5.4.1	Properties	29
3.1.5.4.1.1	Scalar Properties	29
3.1.5.4.1.1.1	CreatedJob	29
3.1.5.4.1.1.2	CurrentJobId	29
3.1.5.4.1.1.3	EncounteredError	29
3.1.5.4.1.2	ObjectPath Properties	29
3.1.5.4.2	Methods	30
3.1.5.4.2.1	Scalar Methods	30
3.1.5.4.2.2	ObjectPath Methods	30
3.1.5.5	Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType	30
3.1.5.5.1	Field Values	30
3.1.5.5.1.1	NoValue	30
3.1.5.5.1.2	All	30
3.1.5.5.1.3	Any	30
3.1.5.6	Microsoft.SharePoint.WorkManagement.Client.CustomAttributeFilter	30
3.1.5.6.1	Properties	30
3.1.5.6.1.1	Scalar Properties	30
3.1.5.6.1.1.1	Attributes	30
3.1.5.6.1.1.2	ConcatType	31
3.1.5.6.1.2	ObjectPath Properties	31
3.1.5.6.2	Methods	31
3.1.5.6.2.1	Scalar Methods	31
3.1.5.6.2.2	ObjectPath Methods	31
3.1.5.6.2.2.1	CSOM Constructor	31
3.1.5.7	Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfo	31
3.1.5.7.1	Properties	31
3.1.5.7.1.1	Scalar Properties	31
3.1.5.7.1.1.1	ProviderKey	31
3.1.5.7.1.1.2	ScriptClass	31
3.1.5.7.1.1.3	ScriptData	32
3.1.5.7.1.1.4	ScriptFiles	32
3.1.5.7.1.2	ObjectPath Properties	32
3.1.5.7.2	Methods	32
3.1.5.7.2.1	Scalar Methods	32
3.1.5.7.2.2	ObjectPath Methods	32
3.1.5.8	Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion	32
3.1.5.8.1	Properties	32
3.1.5.8.1.1	Scalar Properties	32

3.1.5.8.1.1.1	RangeEndValue	32
3.1.5.8.1.1.2	RangeStartValue	33
3.1.5.8.1.2	ObjectPath Properties	33
3.1.5.8.2	Methods	33
3.1.5.8.2.1	Scalar Methods	33
3.1.5.8.2.2	ObjectPath Methods	33
3.1.5.8.2.2.1	CSOM Constructor	33
3.1.5.9	Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo	33
3.1.5.9.1	Properties	33
3.1.5.9.1.1	Scalar Properties	33
3.1.5.9.1.1.1	LatestRefreshTime	33
3.1.5.9.1.1.2	Succeeded	33
3.1.5.9.1.1.3	NewTasks	34
3.1.5.9.1.2	ObjectPath Properties	34
3.1.5.9.1.2.1	ProviderErrors	34
3.1.5.9.2	Methods	34
3.1.5.9.2.1	Scalar Methods	34
3.1.5.9.2.2	ObjectPath Methods	34
3.1.5.10	Microsoft.SharePoint.WorkManagement.Client.Location	34
3.1.5.10.1	Properties	34
3.1.5.10.1.1	Scalar Properties	34
3.1.5.10.1.1.1	Color	34
3.1.5.10.1.1.2	Id	34
3.1.5.10.1.1.3	Name	35
3.1.5.10.1.1.4	ParentId	35
3.1.5.10.1.1.5	RootProviderKey	35
3.1.5.10.1.1.6	Url	35
3.1.5.10.1.1.7	Important	35
3.1.5.10.1.2	ObjectPath Properties	35
3.1.5.10.2	Methods	35
3.1.5.10.2.1	Scalar Methods	35
3.1.5.10.2.2	ObjectPath Methods	36
3.1.5.10.2.2.1	CSOM Constructor	36
3.1.5.11	Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection	36
3.1.5.11.1	Properties	36
3.1.5.11.1.1	Scalar Properties	36
3.1.5.11.1.2	ObjectPath Properties	36
3.1.5.11.2	Methods	36
3.1.5.11.2.1	Scalar Methods	36
3.1.5.11.2.2	ObjectPath Methods	36
3.1.5.12	Microsoft.SharePoint.WorkManagement.Client.LocationDisplaySetting	36
3.1.5.12.1	Properties	36
3.1.5.12.1.1	Scalar Properties	36
3.1.5.12.1.1.1	Color	36
3.1.5.12.1.1.2	Id	37
3.1.5.12.1.2	ObjectPath Properties	37
3.1.5.12.2	Methods	37
3.1.5.12.2.1	Scalar Methods	37
3.1.5.12.2.2	ObjectPath Methods	37
3.1.5.13	Microsoft.SharePoint.WorkManagement.Client.LocationFilter	37
3.1.5.13.1	Properties	37
3.1.5.13.1.1	Scalar Properties	37
3.1.5.13.1.1.1	LocationKeys	37

3.1.5.13.1.1.2	IncludeUncategorizedTasks.....	37
3.1.5.13.1.2	ObjectPath Properties.....	37
3.1.5.13.2	Methods.....	38
3.1.5.13.2.1	Scalar Methods.....	38
3.1.5.13.2.2	ObjectPath Methods.....	38
3.1.5.13.2.2.1	CSOM Constructor.....	38
3.1.5.14	Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection	38
3.1.5.14.1	Properties.....	38
3.1.5.14.1.1	Scalar Properties.....	38
3.1.5.14.1.2	ObjectPath Properties.....	38
3.1.5.14.2	Methods.....	38
3.1.5.14.2.1	Scalar Methods.....	38
3.1.5.14.2.2	ObjectPath Methods.....	38
3.1.5.14.2.2.1	CSOM Constructor.....	38
3.1.5.15	Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession	38
3.1.5.15.1	Properties.....	39
3.1.5.15.1.1	Scalar Properties.....	39
3.1.5.15.1.2	ObjectPath Properties.....	39
3.1.5.15.2	Methods.....	39
3.1.5.15.2.1	Scalar Methods.....	39
3.1.5.15.2.1.1	MovePersonalTaskToLocation.....	39
3.1.5.15.2.1.2	BeginExchangeSync.....	39
3.1.5.15.2.1.3	IsExchangeJobPending.....	39
3.1.5.15.2.2	ObjectPath Methods.....	39
3.1.5.15.2.2.1	AddAttributeToTask.....	39
3.1.5.15.2.2.2	BeginCacheRefresh.....	40
3.1.5.15.2.2.3	CreateTask.....	40
3.1.5.15.2.2.4	DeleteTask.....	41
3.1.5.15.2.2.5	GetRefreshHistory.....	41
3.1.5.15.2.2.6	GetRefreshStatus.....	41
3.1.5.15.2.2.7	PinTask.....	41
3.1.5.15.2.2.8	ReadTasks.....	41
3.1.5.15.2.2.9	RemoveAttributeFromTask.....	42
3.1.5.15.2.2.10	RemovePinOnTask.....	42
3.1.5.15.2.2.11	UpdateTaskWithLocalizedValue.....	42
3.1.5.15.2.2.12	GetCalloutInfo.....	42
3.1.5.15.2.2.13	ReadAllNonTaskData.....	43
3.1.5.15.2.2.14	RefreshSingleTask.....	43
3.1.5.15.2.2.15	GetRefreshHealthInfo.....	43
3.1.5.15.2.2.16	CreatePersonalTaskAndPromoteToProviderTask.....	43
3.1.5.15.2.2.17	PromotePersonalTaskToProviderTaskInLocation.....	44
3.1.5.16	Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession	44
3.1.5.16.1	Properties.....	45
3.1.5.16.1.1	Scalar Properties.....	45
3.1.5.16.1.2	ObjectPath Properties.....	45
3.1.5.16.2	Methods.....	45
3.1.5.16.2.1	Scalar Methods.....	45
3.1.5.16.2.1.1	MovePersonalTaskToLocation.....	45
3.1.5.16.2.1.2	ReorderTask.....	45

3.1.5.16.2.1.3	BeginExchangeSync.....	45
3.1.5.16.2.1.4	IsExchangeJobPending.....	46
3.1.5.16.2.2	ObjectPath Methods.....	46
3.1.5.16.2.2.1	AddAttributeToTask.....	46
3.1.5.16.2.2.2	BeginCacheRefresh.....	46
3.1.5.16.2.2.3	CreateTask.....	46
3.1.5.16.2.2.4	DeleteTask.....	47
3.1.5.16.2.2.5	GetRefreshHistory.....	47
3.1.5.16.2.2.6	GetRefreshStatus.....	47
3.1.5.16.2.2.7	PinTask.....	47
3.1.5.16.2.2.8	ReadTasks.....	48
3.1.5.16.2.2.9	RemoveAttributeFromTask.....	48
3.1.5.16.2.2.10	RemovePinOnTask.....	48
3.1.5.16.2.2.11	UpdateTaskWithLocalizedValue.....	48
3.1.5.16.2.2.12	GetCalloutInfo.....	49
3.1.5.16.2.2.13	ReadAllNonTaskData.....	49
3.1.5.16.2.2.14	RefreshSingleTask.....	49
3.1.5.16.2.2.15	GetRefreshHealthInfo.....	49
3.1.5.16.2.2.16	CreatePersonalTaskAndPromoteToProviderTask.....	49
3.1.5.16.2.2.17	PromotePersonalTaskToProviderTaskInLocation.....	50
3.1.5.17	Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResult.....	51
3.1.5.17.1	Properties.....	51
3.1.5.17.1.1	Scalar Properties.....	51
3.1.5.17.1.1.1	ActiveAddedCount.....	51
3.1.5.17.1.1.2	AddedCount.....	51
3.1.5.17.1.1.3	RemovedCount.....	51
3.1.5.17.1.1.4	RootLocationId.....	51
3.1.5.17.1.1.5	UpdatedCount.....	51
3.1.5.17.1.2	ObjectPath Properties.....	51
3.1.5.17.2	Methods.....	52
3.1.5.17.2.1	Scalar Methods.....	52
3.1.5.17.2.2	ObjectPath Methods.....	52
3.1.5.18	Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResultClientCollection.....	52
3.1.5.18.1	Properties.....	52
3.1.5.18.1.1	Scalar Properties.....	52
3.1.5.18.1.2	ObjectPath Properties.....	52
3.1.5.18.2	Methods.....	52
3.1.5.18.2.1	Scalar Methods.....	52
3.1.5.18.2.2	ObjectPath Methods.....	52
3.1.5.19	Microsoft.SharePoint.WorkManagement.Client.NameCriterion.....	52
3.1.5.19.1	Properties.....	53
3.1.5.19.1.1	Scalar Properties.....	53
3.1.5.19.1.1.1	CompareType.....	53
3.1.5.19.1.1.2	CompareValue.....	53
3.1.5.19.1.2	ObjectPath Properties.....	53
3.1.5.19.2	Methods.....	53
3.1.5.19.2.1	Scalar Methods.....	53
3.1.5.19.2.2	ObjectPath Methods.....	53
3.1.5.19.2.2.1	CSOM Constructor.....	53
3.1.5.20	Microsoft.SharePoint.WorkManagement.Client.OrderInfo.....	53
3.1.5.20.1	Properties.....	53

3.1.5.20.1.1	Scalar Properties	53
3.1.5.20.1.1.1	Field	53
3.1.5.20.1.1.2	IsDescending	54
3.1.5.20.1.2	ObjectPath Properties	54
3.1.5.20.2	Methods	54
3.1.5.20.2.1	Scalar Methods	54
3.1.5.20.2.2	ObjectPath Methods	54
3.1.5.20.2.2.1	CSOM Constructor	54
3.1.5.21	Microsoft.SharePoint.WorkManagement.Client.PinAge	54
3.1.5.21.1	Field Values	54
3.1.5.21.1.1	NoValue	54
3.1.5.21.1.2	Fresh	54
3.1.5.21.1.3	Stale	54
3.1.5.22	Microsoft.SharePoint.WorkManagement.Client.PinnedState	55
3.1.5.22.1	Field Values	55
3.1.5.22.1.1	NoValue	55
3.1.5.22.1.2	Pinned	55
3.1.5.22.1.3	NotPinned	55
3.1.5.23	Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfo	55
3.1.5.23.1	Properties	55
3.1.5.23.1.1	Scalar Properties	55
3.1.5.23.1.1.1	CorrelationId	55
3.1.5.23.1.1.2	LastSuccessfulRefresh	55
3.1.5.23.1.1.3	LocalizedName	56
3.1.5.23.1.2	ObjectPath Properties	56
3.1.5.23.2	Methods	56
3.1.5.23.2.1	Scalar Methods	56
3.1.5.23.2.2	ObjectPath Methods	56
3.1.5.24	Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfoClientCollecti on	56
3.1.5.24.1	Properties	56
3.1.5.24.1.1	Scalar Properties	56
3.1.5.24.1.2	ObjectPath Properties	56
3.1.5.24.2	Methods	56
3.1.5.24.2.1	Scalar Methods	56
3.1.5.24.2.2	ObjectPath Methods	56
3.1.5.25	Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatus	56
3.1.5.25.1	Properties	57
3.1.5.25.1.1	Scalar Properties	57
3.1.5.25.1.1.1	ProviderKey	57
3.1.5.25.1.1.2	ProviderLocalizedName	57
3.1.5.25.1.1.3	RefreshFinished	57
3.1.5.25.1.1.4	RefreshStarted	57
3.1.5.25.1.1.5	RootLocationId	57
3.1.5.25.1.2	ObjectPath Properties	57
3.1.5.25.2	Methods	58
3.1.5.25.2.1	Scalar Methods	58
3.1.5.25.2.2	ObjectPath Methods	58
3.1.5.26	Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatusClientCo llection	58
3.1.5.26.1	Properties	58

3.1.5.26.1.1	Scalar Properties	58
3.1.5.26.1.2	ObjectPath Properties.....	58
3.1.5.26.2	Methods	58
3.1.5.26.2.1	Scalar Methods.....	58
3.1.5.26.2.2	ObjectPath Methods	58
3.1.5.27	Microsoft.SharePoint.WorkManagement.Client.RefreshResult	58
3.1.5.27.1	Properties.....	59
3.1.5.27.1.1	Scalar Properties	59
3.1.5.27.1.1.1	AggregatorRefreshState	59
3.1.5.27.1.1.2	CorrelationId	59
3.1.5.27.1.1.3	RefreshFinished.....	59
3.1.5.27.1.1.4	RefreshId	59
3.1.5.27.1.2	ObjectPath Properties.....	59
3.1.5.27.1.2.1	TaskChangesByLocation	59
3.1.5.27.1.2.2	ProviderStatuses	59
3.1.5.27.2	Methods.....	60
3.1.5.27.2.1	Scalar Methods.....	60
3.1.5.27.2.2	ObjectPath Methods	60
3.1.5.28	Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfoClientCollecti on.....	60
3.1.5.28.1	Properties.....	60
3.1.5.28.1.1	Scalar Properties	60
3.1.5.28.1.2	ObjectPath Properties.....	60
3.1.5.28.2	Methods	60
3.1.5.28.2.1	Scalar Methods.....	60
3.1.5.28.2.2	ObjectPath Methods	60
3.1.5.29	Microsoft.SharePoint.WorkManagement.Client.RefreshHistory	60
3.1.5.29.1	Properties.....	60
3.1.5.29.1.1	Scalar Properties	60
3.1.5.29.1.2	ObjectPath Properties.....	61
3.1.5.29.1.2.1	Refreshes	61
3.1.5.29.2	Methods.....	61
3.1.5.29.2.1	Scalar Methods.....	61
3.1.5.29.2.2	ObjectPath Methods	61
3.1.5.30	Microsoft.SharePoint.WorkManagement.Client.RefreshState	61
3.1.5.30.1	Field Values	61
3.1.5.30.1.1	NoValue.....	61
3.1.5.30.1.2	Pending	61
3.1.5.30.1.3	Ignored	61
3.1.5.30.1.4	Succeeded	61
3.1.5.30.1.5	Failed	62
3.1.5.31	Microsoft.SharePoint.WorkManagement.Client.SortableSession	62
3.1.5.31.1	Properties.....	62
3.1.5.31.1.1	Scalar Properties	62
3.1.5.31.1.2	ObjectPath Properties.....	62
3.1.5.31.2	Methods	62
3.1.5.31.2.1	Scalar Methods.....	62
3.1.5.31.2.1.1	BeginExchangeSync.....	62
3.1.5.31.2.1.2	IsExchangeJobPending	62
3.1.5.31.2.2	ObjectPath Methods	62
3.1.5.31.2.2.1	AddAttributeToTask	62
3.1.5.31.2.2.2	BeginCacheRefresh.....	63

3.1.5.31.2.2.3	CreateTask	63
3.1.5.31.2.2.4	DeleteTask	64
3.1.5.31.2.2.5	GetRefreshHistory	64
3.1.5.31.2.2.6	GetRefreshStatus	64
3.1.5.31.2.2.7	PinTask	64
3.1.5.31.2.2.8	ReadTasks	64
3.1.5.31.2.2.9	RemoveAttributeFromTask	65
3.1.5.31.2.2.10	RemovePinOnTask	65
3.1.5.31.2.2.11	UpdateTaskWithLocalizedValue	65
3.1.5.31.2.2.12	GetCalloutInfo	65
3.1.5.31.2.2.13	ReadAllNonTaskData	66
3.1.5.31.2.2.14	RefreshSingleTask	66
3.1.5.31.2.2.15	GetRefreshHealthInfo	66
3.1.5.31.2.2.16	CreatePersonalTaskAndPromoteToProviderTask	66
3.1.5.31.2.2.17	PromotePersonalTaskToProviderTaskInLocation	67
3.1.5.32	Microsoft.SharePoint.WorkManagement.Client.SortableSessionManager	67
3.1.5.32.1	Properties	67
3.1.5.32.1.1	Scalar Properties	67
3.1.5.32.1.2	ObjectPath Properties	68
3.1.5.32.2	Methods	68
3.1.5.32.2.1	Scalar Methods	68
3.1.5.32.2.2	ObjectPath Methods	68
3.1.5.32.2.2.1	CreateLocationOrientedSession	68
3.1.5.32.2.2.2	CreateSession	68
3.1.5.32.2.2.3	CSOM Constructor	68
3.1.5.33	Microsoft.SharePoint.WorkManagement.Client.SortableTaskField	68
3.1.5.33.1	Field Values	68
3.1.5.33.1.1	NoValue	68
3.1.5.33.1.2	IsCompleted	68
3.1.5.33.1.3	Id	69
3.1.5.33.1.4	DueDate	69
3.1.5.33.1.5	Description	69
3.1.5.33.1.6	PinAge	69
3.1.5.33.1.7	Location	69
3.1.5.33.1.8	LastModified	69
3.1.5.33.1.9	DiscoveredDate	69
3.1.5.33.1.10	Title	69
3.1.5.34	Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery	69
3.1.5.34.1	Properties	70
3.1.5.34.1.1	Scalar Properties	70
3.1.5.34.1.2	ObjectPath Properties	70
3.1.5.34.1.2.1	CoreQuery	70
3.1.5.34.1.2.2	Order	70
3.1.5.34.2	Methods	70
3.1.5.34.2.1	Scalar Methods	70
3.1.5.34.2.2	ObjectPath Methods	70
3.1.5.34.2.2.1	CSOM Constructor	70
3.1.5.35	Microsoft.SharePoint.WorkManagement.Client.StringCompareType	70
3.1.5.35.1	Field Values	70
3.1.5.35.1.1	NoValue	70
3.1.5.35.1.2	Equals	71
3.1.5.35.1.3	Contains	71
3.1.5.35.1.4	BeginsWith	71

3.1.5.36	Microsoft.SharePoint.WorkManagement.Client.Task	71
3.1.5.36.1	Properties	71
3.1.5.36.1.1	Scalar Properties	71
3.1.5.36.1.1.1	CustomAttributes	71
3.1.5.36.1.1.2	Description	71
3.1.5.36.1.1.3	DueDate	71
3.1.5.36.1.1.4	EditUrl	72
3.1.5.36.1.1.5	Id	72
3.1.5.36.1.1.6	IsCompleted	72
3.1.5.36.1.1.7	IsPersonal	72
3.1.5.36.1.1.8	LastModified	72
3.1.5.36.1.1.9	Name	72
3.1.5.36.1.1.10	PinAge	72
3.1.5.36.1.1.11	SerializedCustomDataForClient	73
3.1.5.36.1.1.12	StartDate	73
3.1.5.36.1.1.13	LocationId	73
3.1.5.36.1.1.14	IsReadOnly	73
3.1.5.36.1.2	ObjectPath Properties	73
3.1.5.36.2	Methods	73
3.1.5.36.2.1	Scalar Methods	73
3.1.5.36.2.2	ObjectPath Methods	73
3.1.5.36.2.2.1	CSOM Constructor	73
3.1.5.37	Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection	73
3.1.5.37.1	Properties	74
3.1.5.37.1.1	Scalar Properties	74
3.1.5.37.1.2	ObjectPath Properties	74
3.1.5.37.2	Methods	74
3.1.5.37.2.1	Scalar Methods	74
3.1.5.37.2.2	ObjectPath Methods	74
3.1.5.37.2.2.1	CSOM Constructor	74
3.1.5.38	Microsoft.SharePoint.WorkManagement.Client.TaskFilter	74
3.1.5.38.1	Properties	74
3.1.5.38.1.1	Scalar Properties	74
3.1.5.38.1.1.1	CriterionConcatType	74
3.1.5.38.1.1.2	IdsToFilterBy	74
3.1.5.38.1.2	ObjectPath Properties	75
3.1.5.38.1.2.1	CompletedCriterion	75
3.1.5.38.1.2.2	DueDateRangeCriterion	75
3.1.5.38.1.2.3	IsNewCriterion	75
3.1.5.38.1.2.4	NameCriterion	75
3.1.5.38.1.2.5	StartDateRangeCriterion	75
3.1.5.38.2	Methods	75
3.1.5.38.2.1	Scalar Methods	75
3.1.5.38.2.2	ObjectPath Methods	75
3.1.5.38.2.2.1	CSOM Constructor	75
3.1.5.39	Microsoft.SharePoint.WorkManagement.Client.TaskQuery	76
3.1.5.39.1	Properties	76
3.1.5.39.1.1	Scalar Properties	76
3.1.5.39.1.1.1	KeywordFilter	76
3.1.5.39.1.1.2	LastQueryTime	76
3.1.5.39.1.1.3	PinnedFilter	76
3.1.5.39.1.2	ObjectPath Properties	76
3.1.5.39.1.2.1	CustomAttributeFilter	76

3.1.5.39.1.2.2	FieldFilter	76
3.1.5.39.1.2.3	LastModifiedDateRangeFilter	77
3.1.5.39.1.2.4	LocationFilter	77
3.1.5.39.2	Methods	77
3.1.5.39.2.1	Scalar Methods	77
3.1.5.39.2.2	ObjectPath Methods	77
3.1.5.39.2.2.1	CSOM Constructor	77
3.1.5.40	Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult	77
3.1.5.40.1	Properties	77
3.1.5.40.1.1	Scalar Properties	77
3.1.5.40.1.1.1	Error	77
3.1.5.40.1.1.2	ErrorMessage	77
3.1.5.40.1.2	ObjectPath Properties	78
3.1.5.40.1.2.1	Result	78
3.1.5.40.2	Methods	78
3.1.5.40.2.1	Scalar Methods	78
3.1.5.40.2.2	ObjectPath Methods	78
3.1.5.41	Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession	78
3.1.5.41.1	Properties	78
3.1.5.41.1.1	Scalar Properties	78
3.1.5.41.1.2	ObjectPath Properties	78
3.1.5.41.2	Methods	78
3.1.5.41.2.1	Scalar Methods	78
3.1.5.41.2.1.1	ReorderTask	78
3.1.5.41.2.1.2	BeginExchangeSync	79
3.1.5.41.2.1.3	IsExchangeJobPending	79
3.1.5.41.2.2	ObjectPath Methods	79
3.1.5.41.2.2.1	AddAttributeToTask	79
3.1.5.41.2.2.2	BeginCacheRefresh	79
3.1.5.41.2.2.3	CreateTask	79
3.1.5.41.2.2.4	DeleteTask	80
3.1.5.41.2.2.5	GetRefreshHistory	80
3.1.5.41.2.2.6	GetRefreshStatus	81
3.1.5.41.2.2.7	PinTask	81
3.1.5.41.2.2.8	ReadTasks	81
3.1.5.41.2.2.9	RemoveAttributeFromTask	81
3.1.5.41.2.2.10	RemovePinOnTask	81
3.1.5.41.2.2.11	UpdateTaskWithLocalizedValue	82
3.1.5.41.2.2.12	GetCalloutInfo	82
3.1.5.41.2.2.13	ReadAllNonTaskData	82
3.1.5.41.2.2.14	RefreshSingleTask	82
3.1.5.41.2.2.15	GetRefreshHealthInfo	83
3.1.5.41.2.2.16	CreatePersonalTaskAndPromoteToProviderTask	83
3.1.5.41.2.2.17	PromotePersonalTaskToProviderTaskInLocation	83
3.1.5.42	Microsoft.SharePoint.WorkManagement.Client.UserOrderedSessionManager ...	84
3.1.5.42.1	Properties	84
3.1.5.42.1.1	Scalar Properties	84
3.1.5.42.1.2	ObjectPath Properties	84
3.1.5.42.2	Methods	84
3.1.5.42.2.1	Scalar Methods	84
3.1.5.42.2.2	ObjectPath Methods	84
3.1.5.42.2.2.1	CreateLocationOrientedSession	84
3.1.5.42.2.2.2	CreateSession	84

3.1.5.42.2.2.3	CSOM Constructor	85
3.1.5.43	Microsoft.SharePoint.WorkManagement.Client.UserSettings	85
3.1.5.43.1	Properties	85
3.1.5.43.1.1	Scalar Properties	85
3.1.5.43.1.1.1	DaysAfterCurrentDateTimelineEnds	85
3.1.5.43.1.1.2	DaysATaskIsConsideredNewTask	85
3.1.5.43.1.1.3	DaysBeforeCurrentDateTimelineStarts	85
3.1.5.43.1.1.4	ImportantTasksLimit	85
3.1.5.43.1.1.5	InactiveMonthsBeforeLocationExpiration	86
3.1.5.43.1.1.6	LateTasksLimit	86
3.1.5.43.1.1.7	OldTasksLimit	86
3.1.5.43.1.1.8	UpcomingTasksLimit	86
3.1.5.43.1.1.9	ImportantLocationIds	86
3.1.5.43.1.2	ObjectPath Properties	86
3.1.5.43.2	Methods	86
3.1.5.43.2.1	Scalar Methods	86
3.1.5.43.2.2	ObjectPath Methods	86
3.1.5.43.2.2.1	CSOM Constructor	86
3.1.5.44	Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager	87
3.1.5.44.1	Properties	87
3.1.5.44.1.1	Scalar Properties	87
3.1.5.44.1.2	ObjectPath Properties	87
3.1.5.44.2	Methods	87
3.1.5.44.2.1	Scalar Methods	87
3.1.5.44.2.1.1	SetUserSettings	87
3.1.5.44.2.1.2	IsExchangeJobPending	87
3.1.5.44.2.1.3	OptIntoExchangeSync	87
3.1.5.44.2.1.4	OptOutOfExchangeSync	88
3.1.5.44.2.1.5	SetPersistedProperties	88
3.1.5.44.2.2	ObjectPath Methods	88
3.1.5.44.2.2.1	GetAllLocations	88
3.1.5.44.2.2.2	GetImportantLocations	88
3.1.5.44.2.2.3	GetUserSettings	88
3.1.5.44.2.2.4	GetLocations	88
3.1.5.44.2.2.5	CSOM Constructor	89
3.1.5.44.2.2.6	GetExchangeSyncInfo	89
3.1.5.44.2.2.7	GetPersistedProperties	89
3.1.5.45	Microsoft.SharePoint.WorkManagement.Client.ViewSelectionInfo	89
3.1.5.45.1	Properties	89
3.1.5.45.1.1	Scalar Properties	89
3.1.5.45.1.1.1	Id	89
3.1.5.45.1.1.2	Image	89
3.1.5.45.1.1.3	Name	89
3.1.5.45.1.2	ObjectPath Properties	90
3.1.5.45.2	Methods	90
3.1.5.45.2.1	Scalar Methods	90
3.1.5.45.2.2	ObjectPath Methods	90
3.1.5.45.2.2.1	CSOM Constructor	90
3.1.5.46	Microsoft.SharePoint.WorkManagement.Client.WritableTaskField	90
3.1.5.46.1	Field Values	90
3.1.5.46.1.1	NoValue	90
3.1.5.46.1.2	IsCompleted	90
3.1.5.46.1.3	DueDate	90

3.1.5.46.1.4	Description	90
3.1.5.46.1.5	Title	91
3.1.5.46.1.6	EditUrl	91
3.1.5.46.1.7	StartDate	91
3.1.5.47	Microsoft.SharePoint.WorkManagement.Client.WriteFieldType	91
3.1.5.47.1	Field Values	91
3.1.5.47.1.1	NoValue	91
3.1.5.47.1.2	TaskNotFound	91
3.1.5.47.1.3	InvalidInput	91
3.1.5.47.1.4	TaskDeleted	91
3.1.5.47.1.5	FieldConflict	91
3.1.5.47.1.6	Validation	92
3.1.5.47.1.7	LocationInvalid	92
3.1.5.47.1.8	Unknown	92
3.1.5.47.1.9	DueDateInvalid	92
3.1.5.47.1.10	StartDateInvalid	92
3.1.5.47.1.11	DescriptionInvalid	92
3.1.5.47.1.12	IsCompletedInvalid	92
3.1.5.47.1.13	TitleInvalid	92
3.1.5.47.1.14	EditUrlInvalid	92
3.1.5.47.1.15	AccessDenied	93
3.1.5.47.1.16	PromoteTargetTaskNotPersonal	93
3.1.5.47.1.17	PromotionFailedInProvider	93
3.1.5.48	Microsoft.SharePoint.WorkManagement.Client.PrivacyType	93
3.1.5.48.1	Field Values	93
3.1.5.48.1.1	None	93
3.1.5.48.1.2	Personal	93
3.1.5.48.1.3	Public	93
3.1.5.49	Microsoft.SharePoint.WorkManagement.Client.CalloutInfo	93
3.1.5.49.1	Properties	94
3.1.5.49.1.1	Scalar Properties	94
3.1.5.49.1.1.1	Contacts	94
3.1.5.49.1.1.2	DirectLinkTitle	94
3.1.5.49.1.1.3	DirectLinkUrl	94
3.1.5.49.1.1.4	Hierarchy	94
3.1.5.49.1.1.5	Predecessors	94
3.1.5.49.1.1.6	Successors	94
3.1.5.49.1.1.7	Title	94
3.1.5.49.1.1.8	Url	95
3.1.5.49.1.2	ObjectPath Properties	95
3.1.5.49.2	Methods	95
3.1.5.49.2.1	Scalar Methods	95
3.1.5.49.2.2	ObjectPath Methods	95
3.1.5.50	Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfo ClientCollection	95
3.1.5.50.1	Properties	95
3.1.5.50.1.1	Scalar Properties	95
3.1.5.50.1.2	ObjectPath Properties	95
3.1.5.50.2	Methods	95
3.1.5.50.2.1	Scalar Methods	95
3.1.5.50.2.2	ObjectPath Methods	96
3.1.5.51	Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult	96

3.1.5.51.1	Field Values	96
3.1.5.51.1.1	NoValue.....	96
3.1.5.51.1.2	Success	96
3.1.5.51.1.3	UnknownError	96
3.1.5.51.1.4	CouldNotConnectToExchange	96
3.1.5.51.1.5	CouldNotFindOrCreateMySite.....	96
3.1.5.51.1.6	UserAlreadyOptedIn	96
3.1.5.51.1.7	UserExchangeOperationPending.....	96
3.1.5.51.1.8	UnsupportedExchangeVersion	97
3.1.5.51.1.9	MissingEmailAddress	97
3.1.5.51.1.10	ExchangeWebServiceClientMissing	97
3.1.5.51.1.11	UnsupportedSharePointConfiguration.....	97
3.1.5.51.1.12	InvalidOrUnauthorizedUser.....	97
3.1.5.51.1.13	CouldNotActivateExchangeSyncFeatureOnSiteSubscription	97
3.1.5.52	Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult	97
3.1.5.52.1	Field Values	97
3.1.5.52.1.1	NoValue.....	97
3.1.5.52.1.2	Success	98
3.1.5.52.1.3	UnknownError	98
3.1.5.52.1.4	CouldNotConnectToExchange	98
3.1.5.52.1.5	CouldNotGetUserCredentials	98
3.1.5.52.1.6	CouldNotKickoffJob	98
3.1.5.52.1.7	SyncWithErrors	98
3.1.5.53	Microsoft.SharePoint.WorkManagement.Client.ExchangeUserSyncState	98
3.1.5.53.1	Properties.....	98
3.1.5.53.1.1	Scalar Properties	98
3.1.5.53.1.1.1	IsOptedIn.....	98
3.1.5.53.1.1.2	LastEndTime	99
3.1.5.53.1.1.3	LastSyncResult	99
3.1.5.53.1.2	ObjectPath Properties.....	99
3.1.5.53.2	Methods	99
3.1.5.53.2.1	Scalar Methods.....	99
3.1.5.53.2.2	ObjectPath Methods	99
3.1.5.54	Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult	99
3.1.5.54.1	Properties.....	99
3.1.5.54.1.1	Scalar Properties	99
3.1.5.54.1.2	ObjectPath Properties.....	99
3.1.5.54.1.2.1	AllLocatons	99
3.1.5.54.1.2.2	PersistedProperties	100
3.1.5.54.1.2.3	RefreshHistory	100
3.1.5.54.1.2.4	ScriptExtensions	100
3.1.5.54.1.2.5	UserSettings	100
3.1.5.54.2	Methods	100
3.1.5.54.2.1	Scalar Methods.....	100
3.1.5.54.2.2	ObjectPath Methods	100
3.1.5.55	Microsoft.SharePoint.WorkManagement.Client.PersistedProperties	100
3.1.5.55.1	Properties.....	101
3.1.5.55.1.1	Scalar Properties	101
3.1.5.55.1.1.1	FilteredLocationIds	101
3.1.5.55.1.1.2	GroupByProjects	101
3.1.5.55.1.1.3	HasShownMarkAsImportantCallout	101
3.1.5.55.1.1.4	HasShownTaskListTooLongNotification	101
3.1.5.55.1.1.5	QuickLaunchLandingPage	101

3.1.5.55.1.2	ObjectPath Properties.....	101
3.1.5.55.2	Methods.....	101
3.1.5.55.2.1	Scalar Methods.....	101
3.1.5.55.2.2	ObjectPath Methods.....	102
3.1.5.55.2.2.1	CSOM Constructor.....	102
3.1.5.56	Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult.....	102
3.1.5.56.1	Properties.....	102
3.1.5.56.1.1	Scalar Properties.....	102
3.1.5.56.1.1.1	ErrorCorrelationId.....	102
3.1.5.56.1.1.2	RefreshState.....	102
3.1.5.56.1.2	ObjectPath Properties.....	102
3.1.5.56.1.2.1	Result.....	102
3.1.5.56.2	Methods.....	102
3.1.5.56.2.1	Scalar Methods.....	102
3.1.5.56.2.2	ObjectPath Methods.....	103
3.1.5.57	Microsoft.SharePoint.WorkManagement.Client.TaskQueryByLocationResult ...	103
3.1.5.57.1	Properties.....	103
3.1.5.57.1.1	Scalar Properties.....	103
3.1.5.57.1.1.1	Error.....	103
3.1.5.57.1.1.2	ErrorMessage.....	103
3.1.5.57.1.2	ObjectPath Properties.....	103
3.1.5.57.1.2.1	Results.....	103
3.1.5.57.2	Methods.....	103
3.1.5.57.2.1	Scalar Methods.....	103
3.1.5.57.2.2	ObjectPath Methods.....	103
3.1.5.58	Microsoft.SharePoint.WorkManagement.Client.TaskQueryErrorType.....	104
3.1.5.58.1	Field Values.....	104
3.1.5.58.1.1	NoValue.....	104
3.1.5.58.1.2	QueryThrottled.....	104
3.1.5.59	Microsoft.SharePoint.WorkManagement.Client.TaskQueryResult.....	104
3.1.5.59.1	Properties.....	104
3.1.5.59.1.1	Scalar Properties.....	104
3.1.5.59.1.1.1	Error.....	104
3.1.5.59.1.1.2	ErrorMessage.....	104
3.1.5.59.1.2	ObjectPath Properties.....	104
3.1.5.59.1.2.1	Results.....	104
3.1.5.59.2	Methods.....	105
3.1.5.59.2.1	Scalar Methods.....	105
3.1.5.59.2.2	ObjectPath Methods.....	105
3.1.6	Timer Events.....	105
3.1.7	Other Local Events.....	105
4	Protocol Examples.....	106
4.1	Retrieving Active Tasks for a User.....	106
4.2	Updating a Task.....	109
4.3	Creating a New Task.....	110
5	Security.....	112
5.1	Security Considerations for Implementers.....	112
5.2	Index of Security Parameters.....	112
6	Appendix A: Product Behavior.....	113
7	Change Tracking.....	114

8 Index 115

1 Introduction

The Work Management Client-Side Object Model Protocol defines types, methods, and properties that protocol clients use to access and manipulate **tasks** (3) assigned to a user on a protocol **server** (2) that proxies to a Work Management **service application**.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in [\[RFC2119\]](#). Sections 1.5 and 1.9 are also normative but do not contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are defined in [MS-OFCGLOS]:

CSOM array
CSOM Boolean
CSOM DateTime
CSOM Int32
CSOM String
CSOM UInt32
endpoint
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
list
server
service application
session
site
task
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
User Profile Service
view

The following terms are specific to this document:

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

References to Microsoft Open Specification documents do not include a publishing year because links are to the latest version of the documents, which are updated frequently. References to other documents include a publishing year when one is available.

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-CSOM] Microsoft Corporation, "[SharePoint Client Query Protocol](#)".

[MS-WMS] Microsoft Corporation, "[Work Management Service Web Service 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>

1.2.2 Informative References

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

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

[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>

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

1.3 Overview

This protocol defines types, methods, and properties that protocol clients use to access and manipulate tasks (3) assigned to a user on a protocol server (2) that proxies to an instance of the Work Management service application.

Some typical scenarios in which a protocol client could use this protocol are: retrieving a user's task (3) **list** (1), updating a task (3), and changing the order of tasks (3).

1.4 Relationship to Other Protocols

The Work Management Client-Side Object Model protocol is a set of types, properties, and methods that can be accessed by using the SharePoint Client Query Protocol as described in [\[MS-CSOM\]](#). This protocol also uses **Hypertext Transfer Protocol (HTTP)**, as described in [\[RFC2616\]](#) and **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#). The dependencies for this protocol are shown in the following layering diagram.

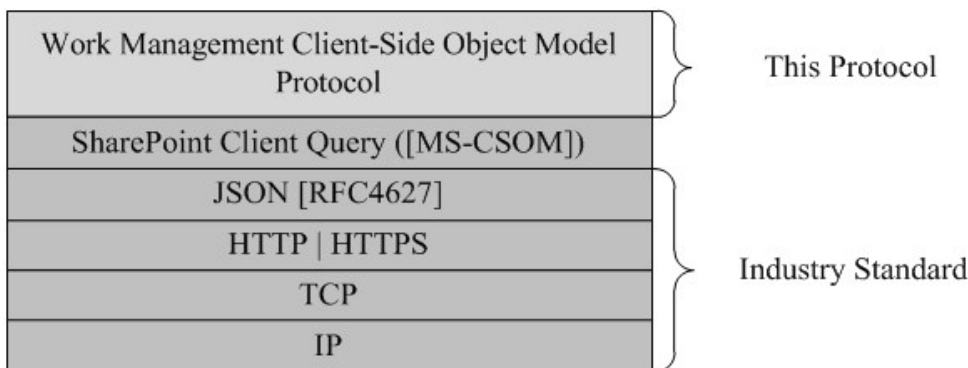


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol depends on the **User Profile Service** APIs to determine the **Uniform Resource Locator (URL)** for the **site** (2) to retrieve tasks (3) from.

This protocol operates against a protocol server (2) that exposes one or more **endpoint (4) Uniform Resource Identifiers (URI)** that are known by protocol clients.

This protocol assumes that authentication has been performed by underlying protocols.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server (2).

1.6 Applicability Statement

This protocol can be used by a protocol client to read data from, write data to, and execute operations against a protocol server (2). The protocol is optimized to enable a protocol client to specify the exact set of data and operations to perform in a single batch, making it suitable for situations where the connection speed between the protocol client and the protocol server (2) can be slow. Because of the complexity of the structure of requests and responses, it is not suitable for cases where the inputs and outputs need to be quickly understood and specified by a human. Because the protocol features minimal services for type and operation discovery, it is not suitable for protocol servers (2) that implement a different set of functionality compared to the set of functionality described for a collaboration server (2) in [\[MS-WSSTS\]](#).

1.7 Versioning and Capability Negotiation

This protocol operates in the context of the authenticated user that made a request to the service, and it runs in the context of a particular site (2). Localization-specific properties, such as the title of a list (1), are returned by using the preferred language of the user, if available, or by using the default language of the site (2) as a fallback.

1.8 Vendor-Extensible Fields

A protocol server (2) can provide additional properties and methods beyond those specified in this document to provide extended collaboration server (2) functionality; however, because no means are provided for a protocol client to discover that extended functionality, the functionality is taken advantage of only by protocol clients that have built-in knowledge of the extensions.

A protocol client is expected to be tolerant of the situation where particular methods and properties specified in this document are not available, because either the protocol server (2) does not support the functionality or the administrator has disabled specific functionalities.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

Messages are transported by using the SharePoint Client Query Protocol, as specified in [\[MS-CSOM\]](#).

2.2 Message Syntax

2.2.1 Common Exceptions

The protocol server (2) MUST validate the request from the protocol client. When a protocol server (2) processes a CSOM operation in the request, the following table lists common exceptions that could occur when accessing or updating a property or invoking a method.

Error code	Error type name	Condition
- 2147024891	System.UnauthorizedAccessException	The user does not have permission to access a property, update a property, or call a method.

Besides the preceding exceptions and the exceptions that are listed for the specific properties or methods, the protocol server (2) can return other exceptions to the protocol client, for which the protocol client could use the error message for display purpose but could not use the error code or error type to determine the causes of the exception.

Exceptions listed for the specific properties are thrown for both read and write operations, unless otherwise specified.

3 Protocol Details

3.1 Server Details

3.1.1 Abstract Data Model

This protocol shares the abstract data model used by the SharePoint Client Query Protocol, as specified in [\[MS-CSOM\]](#) section 3.1.1, to communicate with the protocol server (2).

The protocol server maintains a collection of tasks (3) assigned to the current user that serves as a task (3) cache. It also maintains a collection of locations from which the source tasks (3) originate, which can consist of locations on the protocol server or external server, and settings for the user for managing tasks (3).

Most methods in this protocol perform operations that create, read, update, or delete data on these stored tasks (3). However, the **BeginCacheRefresh** and **BeginExchangeSync** methods call web service endpoints (4) on a service application that implements the Work Management Service Web Service protocol specified in [\[MS-WMS\]](#) to trigger refresh operations that update the cache with new and modified tasks (3), or synchronize tasks (3) assigned to the user with another task (3) server determined by the configuration of the service application. Tasks (3) are aggregated from other locations through providers configured on the service application.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

None.

3.1.5 Message Processing Events and Sequencing Rules

3.1.5.1 Microsoft.SharePoint.WorkManagement.Client.BaseSession

TypeId: {3FE45B91-5B30-447C-884F-0E1837215FF9}

ShortName: SP.WorkManagement.OM.BaseSession

Represents a base **session** (2) that is used to access the work management tasks (3).

3.1.5.1.1 Properties

3.1.5.1.1.1 Scalar Properties

None.

3.1.5.1.1.2 ObjectPath Properties

None.

3.1.5.1.2 Methods

3.1.5.1.2.1 Scalar Methods

3.1.5.1.2.1.1 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.1.2.1.2 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.1.2.2 ObjectPath Methods

3.1.5.1.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.1.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.1.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.1.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.1.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

Returns information about the latest task (3) cache refresh.

Parameters:

since: Specifies the date on which the history starts.

Type: **CSOM DateTime**

3.1.5.1.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshResult

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.1.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.1.2.2.8 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.1.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.1.2.2.9 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.1.2.2.10 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a task (3) field with a localized value.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value of the field.

Type: CSOM String

3.1.5.1.2.2.11 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.1.2.2.12 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.1.2.2.13 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to refresh information for.

Type: CSOM Int32

3.1.5.1.2.2.14 GetRefreshHealthInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo

Gets the refresh health information.

Parameters: None

3.1.5.1.2.2.15 CreatePersonalTaskAndPromoteToProviderTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **CreatePersonalTaskAndPromoteToProviderTask** method creates a new personal task (3) and then tries to promote it to the provider specified by the *locationKey* parameter.

This is a convenience method that is the equivalent of calling **CreateTask** and then **PromotePersonalTaskToProviderTaskInLocation**.

If the location key is invalid, or the promote fails in the provider, the personal task (3) can already have been created and will not be cleaned up.

For more details on how the promote step works, please check the **PromotePersonalTaskToProviderTaskToLocation** method.

Parameters:

taskName: The name of the task (3).

Type: CSOM String

description: The description of the task (3).

Type: CSOM String

localizedStartDate: The start date in a localized string.

Type: CSOM String

localizedDueDate: The due date in a localized string.

Type: CSOM String

completed: Specifies whether the task (3) is finished.

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (3). -1 for personal tasks (3).

Type: CSOM Int32

3.1.5.1.2.2.16 PromotePersonalTaskToProviderTaskInLocation

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **PromotePersonalTaskToProviderTaskInLocation** method makes a copy of the specified task (3) in the data source of the specified location and links it to the All My Work In One Place (AWIOP) representation.

For example, if the location identifier points to a list (1), calling this method would result in a task (3) being created in that list. The AWIOP task (3) would be changed to be a linked task (3) rather than a personal one, as if the task (3) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (3).

Type: CSOM Int32

locationId: The identifier of the location.

Type: CSOM Int32

3.1.5.2 Microsoft.SharePoint.WorkManagement.Client.BooleanCompareType

ShortName: SP.WorkManagement.OM.BooleanCompareType

Flag: false

Defines the Boolean comparison result values.

3.1.5.2.1 Field Values

3.1.5.2.1.1 NoValue

Value: 0

No value.

3.1.5.2.1.2 IsTrue

Value: 1

The result SHOULD be true.

3.1.5.2.1.3 IsFalse

Value: 2

The result SHOULD be false.

3.1.5.3 Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion

TypeId: {16D379B2-E752-405E-A05F-A8FE05AA0D07}

ShortName: SP.WorkManagement.OM.BooleanCriterion

Object used to filter a task (3) list (1) on a Boolean property.

3.1.5.3.1 Properties

3.1.5.3.1.1 Scalar Properties

3.1.5.3.1.1.1 CompareType

Type: Microsoft.SharePoint.WorkManagement.Client.BooleanCompareType

Accessibility: Read/Write

Specifies the value to evaluate when filtering tasks (3).

3.1.5.3.1.2 ObjectPath Properties

None.

3.1.5.3.2 Methods

3.1.5.3.2.1 Scalar Methods

None.

3.1.5.3.2.2 ObjectPath Methods

3.1.5.3.2.2.1 CSOM Constructor

Creates a new **BooleanCriterion** object.

Parameters: None

3.1.5.4 Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

TypeId: {B020A172-1E1C-4327-A356-6002D815E3EA}

ShortName: SP.WorkManagement.OM.CreateRefreshJobResult

Represents the result of a **BeginCacheRefresh** method, as specified in sections [3.1.5.1.2.2.2](#), [3.1.5.15.2.2.2](#), [3.1.5.16.2.2.2](#), [3.1.5.31.2.2.2](#), and [3.1.5.41.2.2.2](#).

3.1.5.4.1 Properties

3.1.5.4.1.1 Scalar Properties

3.1.5.4.1.1.1 CreatedJob

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether a job was created (true) or not (false).

3.1.5.4.1.1.2 CurrentJobId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the created job identifier.

3.1.5.4.1.1.3 EncounteredError

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether an error was encountered.

3.1.5.4.1.2 ObjectPath Properties

None.

3.1.5.4.2 Methods

3.1.5.4.2.1 Scalar Methods

None.

3.1.5.4.2.2 ObjectPath Methods

None.

3.1.5.5 Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

ShortName: SP.WorkManagement.OM.CriterionConcatType

Flag: false

Defines the logical types of criterion concatenation.

3.1.5.5.1 Field Values

3.1.5.5.1.1 NoValue

Value: 0

No value.

3.1.5.5.1.2 All

Value: 1

All criteria SHOULD be true (logical AND).

3.1.5.5.1.3 Any

Value: 2

At least one criterion SHOULD be true (logical OR).

3.1.5.6 Microsoft.SharePoint.WorkManagement.Client.CustomAttributeFilter

TypeId: {0E21BB74-7473-48B1-9F7B-D1185BA1CA71}

ShortName: SP.WorkManagement.OM.CustomAttributeFilter

Represents a filter with custom attributes.

3.1.5.6.1 Properties

3.1.5.6.1.1 Scalar Properties

3.1.5.6.1.1.1 Attributes

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies the array of attributes defined by the user or the system.

3.1.5.6.1.1.2 ConcatType

Type: Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

Accessibility: Read/Write

Specifies how to concatenate the attribute results.

3.1.5.6.1.2 ObjectPath Properties

None.

3.1.5.6.2 Methods

3.1.5.6.2.1 Scalar Methods

None.

3.1.5.6.2.2 ObjectPath Methods

3.1.5.6.2.2.1 CSOM Constructor

Creates a new **CustomAttributeFilter** object.

Parameters: None

3.1.5.7

Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfo

TypeId: {D262CC71-32DB-4F83-8A1C-6986BD6F733F}

ShortName: SP.WorkManagement.OM.DashboardScriptExtensionInfo

Represents the JavaScript file and class that are associated with a specific task provider for retrieving information that a protocol client can use to extend its user interface or other functionality. Information provided by the extension class is custom to each provider.

3.1.5.7.1 Properties

3.1.5.7.1.1 Scalar Properties

3.1.5.7.1.1.1 ProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the provider identifier.

3.1.5.7.1.1.2 ScriptClass

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the JavaScript class to call to provide information for the user interface.

3.1.5.7.1.1.3 ScriptData

Type: CSOM String

Accessibility: Read/Write

Specifies provider-specific custom data for a JavaScript extension.

3.1.5.7.1.1.4 ScriptFiles

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies the JavaScript files that SHOULD be loaded by the user interface.

3.1.5.7.1.2 ObjectPath Properties

None.

3.1.5.7.2 Methods

3.1.5.7.2.1 Scalar Methods

None.

3.1.5.7.2.2 ObjectPath Methods

None.

3.1.5.8 Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

TypeId: {C9C79001-8E9D-4F24-860B-55BD22C13EAE}

ShortName: SP.WorkManagement.OM.DateRangeCriterion

Filters a task (3) list (1) on a **DateTime** property.

3.1.5.8.1 Properties

3.1.5.8.1.1 Scalar Properties

3.1.5.8.1.1.1 RangeEndValue

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the end date of the range. Use 00:00:00.0000000, January 1, 0001 to represent no end date.

3.1.5.8.1.1.2 RangeStartValue

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the start date of the range. Use 00:00:00.0000000, January 1, 0001 to represent no start date.

3.1.5.8.1.2 ObjectPath Properties

None.

3.1.5.8.2 Methods

3.1.5.8.2.1 Scalar Methods

None.

3.1.5.8.2.2 ObjectPath Methods

3.1.5.8.2.2.1 CSOM Constructor

Creates a new **DateRangeCriterion** object.

Parameters: None

3.1.5.9 Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo

TypeId: {8FEBD942-9CC1-47C0-9153-02A636BFD5DF}

ShortName: SP.WorkManagement.OM.RefreshHealthInfo

Specifies the result of a **GetRefreshHistory** method, as specified in section [3.1.5.1.2.2.5](#), [3.1.5.15.2.2.5](#), [3.1.5.16.2.2.5](#), [3.1.5.31.2.2.5](#), and [3.1.5.41.2.2.5](#).

3.1.5.9.1 Properties

3.1.5.9.1.1 Scalar Properties

3.1.5.9.1.1.1 LatestRefreshTime

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time of the most recent refresh.

3.1.5.9.1.1.2 Succeeded

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a value that indicates whether the refresh succeeded (true) or failed (false).

3.1.5.9.1.1.3 NewTasks

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of new tasks (3) that were found during the refresh.

3.1.5.9.1.2 ObjectPath Properties

3.1.5.9.1.2.1 ProviderErrors

Type: Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfoClientCollection

Accessibility: Read/Write

Specifies a collection of provider errors.

3.1.5.9.2 Methods

3.1.5.9.2.1 Scalar Methods

None.

3.1.5.9.2.2 ObjectPath Methods

None.

3.1.5.10 Microsoft.SharePoint.WorkManagement.Client.Location

TypeId: {0280FFCA-96C5-4C96-BBBB-759887950AFD}

ShortName: SP.WorkManagement.OM.Location

Represents information about a source location of the task (3). Locations can be hierarchical, where one location is located inside another.

3.1.5.10.1 Properties

3.1.5.10.1.1 Scalar Properties

3.1.5.10.1.1.1 Color

Type: CSOM String

Accessibility: Read/Write

Specifies the display color of the location as a hexadecimal number.

3.1.5.10.1.1.2 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.10.1.1.3 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the location.

3.1.5.10.1.1.4 ParentId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location's parent identifier. MUST return -1 if it has no parent location.

3.1.5.10.1.1.5 RootProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the root provider identifier of the location.

3.1.5.10.1.1.6 Url

Type: CSOM String

Accessibility: Read/Write

Specifies the URL of the location.

3.1.5.10.1.1.7 Important

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the location is important (true) or not (false).

3.1.5.10.1.2 ObjectPath Properties

None.

3.1.5.10.2 Methods

3.1.5.10.2.1 Scalar Methods

None.

3.1.5.10.2.2 ObjectPath Methods

3.1.5.10.2.2.1 CSOM Constructor

Creates a new **Location** object.

Parameters: None

3.1.5.11 Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

TypeId: {2F28E64C-57DE-436F-B455-DCACFBAE647C}

ShortName: SP.WorkManagement.OM.LocationClientCollection

Represents a collection of locations.

3.1.5.11.1 Properties

3.1.5.11.1.1 Scalar Properties

None.

3.1.5.11.1.2 ObjectPath Properties

None.

3.1.5.11.2 Methods

3.1.5.11.2.1 Scalar Methods

None.

3.1.5.11.2.2 ObjectPath Methods

None.

3.1.5.12 Microsoft.SharePoint.WorkManagement.Client.LocationDisplaySetting

TypeId: {C9D8B21D-774A-4940-A45D-DC74859C0E6F}

ShortName: SP.WorkManagement.OM.LocationDisplaySetting

Represents the display settings for a location.

3.1.5.12.1 Properties

3.1.5.12.1.1 Scalar Properties

3.1.5.12.1.1.1 Color

Type: CSOM String

Accessibility: Read/Write

Specifies the display color of the location as a hexadecimal number.

3.1.5.12.1.1.2 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.12.1.2 ObjectPath Properties

None.

3.1.5.12.2 Methods

3.1.5.12.2.1 Scalar Methods

None.

3.1.5.12.2.2 ObjectPath Methods

None.

3.1.5.13 Microsoft.SharePoint.WorkManagement.Client.LocationFilter

TypeId: {D9CE752E-01ED-4872-B4DA-FC362038FBF0}

ShortName: SP.WorkManagement.OM.LocationFilter

Represents a task (3) filter by location.

3.1.5.13.1 Properties

3.1.5.13.1.1 Scalar Properties

3.1.5.13.1.1.1 LocationKeys

Type: CSOM array of CSOM Int32

Accessibility: Read/Write

Specifies the location identifiers that SHOULD be included in the query.

3.1.5.13.1.1.2 IncludeUncategorizedTasks

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether to include tasks (3) that do not have a location in the results (true) or not (false).

3.1.5.13.1.2 ObjectPath Properties

None.

3.1.5.13.2 Methods

3.1.5.13.2.1 Scalar Methods

None.

3.1.5.13.2.2 ObjectPath Methods

3.1.5.13.2.2.1 CSOM Constructor

Creates a new **LocationFilter** object.

Parameters: None

3.1.5.14

Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection

TypeId: {25ACD8C5-C100-45DA-B4C5-2BF698F65649}

ShortName: SP.WorkManagement.OM.LocationGroupClientCollection

Represents a collection of tasks (3), ordered by location.

3.1.5.14.1 Properties

3.1.5.14.1.1 Scalar Properties

None.

3.1.5.14.1.2 ObjectPath Properties

None.

3.1.5.14.2 Methods

3.1.5.14.2.1 Scalar Methods

None.

3.1.5.14.2.2 ObjectPath Methods

3.1.5.14.2.2.1 CSOM Constructor

Creates a new **LocationGroupClientCollection** object.

Parameters: None

3.1.5.15

Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession

TypeId: {A4DA2E47-975B-4352-934A-4DFE0167D509}

ShortName: SP.WorkManagement.OM.LocationOrientedSortableSession

Represents a session (2) with tasks (3) grouped by location and sorted within each location group.

3.1.5.15.1 Properties

3.1.5.15.1.1 Scalar Properties

None.

3.1.5.15.1.2 ObjectPath Properties

None.

3.1.5.15.2 Methods

3.1.5.15.2.1 Scalar Methods

3.1.5.15.2.1.1 MovePersonalTaskToLocation

Return Type: CSOM Boolean

Moves a task (3) to a new location if the task (3) is personal but does nothing if the task (3) comes from an external location. Returns true if the task (3) was moved successfully or false otherwise.

Parameters:

taskKey: Identifier of the task (3) to move.

Type: CSOM Int32

newLocationKey: Identifier of the new location.

Type: CSOM Int32

3.1.5.15.2.1.2 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.15.2.1.3 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.15.2.2 ObjectPath Methods

3.1.5.15.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the string to be added.

Type: CSOM String

3.1.5.15.2.2.2 **BeginCacheRefresh**

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.15.2.2.3 **CreateTask**

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the name of the task (3).

Type: CSOM String

description: Specifies the description of the task (3).

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false)

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the location of the task (3). Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.15.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.15.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

Returns information about the latest task (3) cache refresh.

Parameters:

since: Specifies the date on which the history starts.

Type: CSOM DateTime

3.1.5.15.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshResult

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.15.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.15.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection

Returns a collection of tasks (3) ordered and grouped by location, and filtered by the query parameter.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery

3.1.5.15.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.15.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.15.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.15.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value for the field.

Type: CSOM String

3.1.5.15.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.15.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.15.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to be refreshed.

Type: CSOM Int32

3.1.5.15.2.2.15 GetRefreshHealthInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo

Gets the refresh health information.

Parameters: None

3.1.5.15.2.2.16 CreatePersonalTaskAndPromoteToProviderTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **CreatePersonalTaskAndPromoteToProviderTask** method creates a new personal task (3) and then tries to promote it to the provider specified by the *locationKey* parameter.

This is a convenience method that is the equivalent of calling **CreateTask** and then **PromotePersonalTaskToProviderTaskInLocation**.

If the location key is invalid, or the promote fails in the provider, the personal task (3) can already have been created and will not be cleaned up.

For more details on how the promote step works, please check the **PromotePersonalTaskToProviderTaskToLocation** method.

Parameters:

taskName: The name of the task (3).

Type: CSOM String

description: The description of the task (3).

Type: CSOM String

localizedStartDate: The start date in a localized string.

Type: CSOM String

localizedDueDate: The due date in a localized string.

Type: CSOM String

completed: Specifies whether the task (3) is finished.

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (3). -1 for personal tasks (3).

Type: CSOM Int32

3.1.5.15.2.2.17 PromotePersonalTaskToProviderTaskInLocation

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **PromotePersonalTaskToProviderTaskInLocation** makes a copy of the specified task (3) in the data source of the specified location and links it to the AWIOP representation.

For example, if the location identifier points to a list (1), calling this method would result in a task (3) being created in that list. The AWIOP task (3) would be changed to be a linked task (3) rather than a personal one, as if the task (3) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (3).

Type: CSOM Int32

locationId: The identifier of the location.

Type: CSOM Int32

3.1.5.16

Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession

TypeId: {3ACA594A-48B1-47AA-BBCD-7FD1A2DEC5F9}

ShortName: SP.WorkManagement.OM.LocationOrientedUserOrderedSession

Represents a session (2) with tasks (3) grouped by location, and with user sorting.

3.1.5.16.1 Properties

3.1.5.16.1.1 Scalar Properties

None.

3.1.5.16.1.2 ObjectPath Properties

None.

3.1.5.16.2 Methods

3.1.5.16.2.1 Scalar Methods

3.1.5.16.2.1.1 MovePersonalTaskToLocation

Return Type: CSOM Boolean

Moves a task (3) to a new location if the task (3) is personal but does nothing if the task (3) comes from an external location. Returns true if the task (3) was moved successfully or false otherwise.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

newLocationKey: Specifies the new location identifier.

Type: CSOM Int32

3.1.5.16.2.1.2 ReorderTask

Return Type: None

Changes the order of a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

newAfterTaskKey: Specifies the task (3) identifier for the task (3) that *@taskKey* will be moved after.

Type: CSOM Int32

3.1.5.16.2.1.3 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.16.2.1.4 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.16.2.2 ObjectPath Methods

3.1.5.16.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.16.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.16.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the task (3) start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the task (3) due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.16.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.16.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

Returns information about the latest task (3) cache refresh.

Parameters:

since: Specifies the date on which the history starts.

Type: CSOM DateTime

3.1.5.16.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshResult

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.16.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.16.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection

Returns a collection of tasks (3) sorted in a user-defined order, filtered by the given query, and grouped by location.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQuery

3.1.5.16.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **RemoveAttributeFromTask** method removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.16.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.16.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.16.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value for the field.

Type: CSOM String

3.1.5.16.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.16.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.16.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to be refreshed.

Type: CSOM Int32

3.1.5.16.2.2.15 GetRefreshHealthInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo

Returns information about the state of the last refresh operation.

Parameters: None

3.1.5.16.2.2.16 CreatePersonalTaskAndPromoteToProviderTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **CreatePersonalTaskAndPromoteToProviderTask** method creates a new personal task (3) and then tries to promote it to the provider specified by the *locationKey* parameter.

This is a convenience method that is the equivalent of calling **CreateTask** and then **PromotePersonalTaskToProviderTaskInLocation**.

If the location key is invalid, or the promote fails in the provider, the personal task (3) can already have been created and will not be cleaned up.

For more details on how the promote step works, please check the **PromotePersonalTaskToProviderTaskToLocation** method.

Parameters:

taskName: The name of the task (3).

Type: CSOM String

description: The description of the task (3).

Type: CSOM String

localizedStartDate: The start date in a localized string.

Type: CSOM String

localizedDueDate: The due date in a localized string.

Type: CSOM String

completed: Specifies whether the task (3) is finished.

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned.

Type: CSOM Boolean

locationKey: The location key for the task (3). -1 for personal tasks (3).

Type: CSOM Int32

3.1.5.16.2.2.17 PromotePersonalTaskToProviderTaskInLocation

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **PromotePersonalTaskToProviderTaskInLocation** method makes a copy of the specified task (3) in the data source of the specified location and links it to the AWIOP representation.

For example, if the location identifier points to a list (1), calling this method would result in a task (3) being created in that list. The AWIOP task (3) would be changed to be a linked task (3) rather than a personal one, as if the task (3) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (3).

Type: CSOM Int32

locationId: The identifier of the location.

Type: CSOM Int32

3.1.5.17 Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResult

TypeId: {4D0A3245-9B4F-4986-8B91-87F209FC8BC7}

ShortName: SP.WorkManagement.OM.LocationUpdateResult

Represents the result information from updating a location.

3.1.5.17.1 Properties

3.1.5.17.1.1 Scalar Properties

3.1.5.17.1.1.1 ActiveAddedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of active tasks (3) added since the last update.

3.1.5.17.1.1.2 AddedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of tasks (3) added since the previous update.

3.1.5.17.1.1.3 RemovedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of tasks (3) removed since the previous update.

3.1.5.17.1.1.4 RootLocationId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the provider's root location identifier.

3.1.5.17.1.1.5 UpdatedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of tasks (3) updated since the previous update.

3.1.5.17.1.2 ObjectPath Properties

None.

3.1.5.17.2 Methods

3.1.5.17.2.1 Scalar Methods

None.

3.1.5.17.2.2 ObjectPath Methods

None.

3.1.5.18

Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResultClientCollection

TypeId: {ADC959FA-E5E6-4575-A998-A00CE60A9201}

ShortName: SP.WorkManagement.OM.LocationUpdateResultClientCollection

Represents a collection of **LocationUpdateResult** objects as specified in section [3.1.5.17](#).

3.1.5.18.1 Properties

3.1.5.18.1.1 Scalar Properties

None.

3.1.5.18.1.2 ObjectPath Properties

None.

3.1.5.18.2 Methods

3.1.5.18.2.1 Scalar Methods

None.

3.1.5.18.2.2 ObjectPath Methods

None.

3.1.5.19 Microsoft.SharePoint.WorkManagement.Client.NameCriterion

TypeId: {1C2A7A53-2CDD-4C21-8DD6-1673656ECA45}

ShortName: SP.WorkManagement.OM.NameCriterion

Object used to filter tasks (3) based on a string property representing the name of a task (3).

3.1.5.19.1 Properties

3.1.5.19.1.1 Scalar Properties

3.1.5.19.1.1.1 CompareType

Type: Microsoft.SharePoint.WorkManagement.Client.StringCompareType

Accessibility: Read/Write

Specifies the comparison operation to use when filtering on a string property.

3.1.5.19.1.1.2 CompareValue

Type: CSOM String

Accessibility: Read/Write

Specifies the value to evaluate against when filtering tasks (3).

3.1.5.19.1.2 ObjectPath Properties

None.

3.1.5.19.2 Methods

3.1.5.19.2.1 Scalar Methods

None.

3.1.5.19.2.2 ObjectPath Methods

3.1.5.19.2.2.1 CSOM Constructor

Creates a new **NameCriterion** object.

Parameters: None

3.1.5.20 Microsoft.SharePoint.WorkManagement.Client.OrderInfo

TypeId: {8C385903-1E43-4256-8037-F7FF442154EC}

ShortName: SP.WorkManagement.OM.OrderInfo

Represents how to order the results of a sortable task (3) query.

3.1.5.20.1 Properties

3.1.5.20.1.1 Scalar Properties

3.1.5.20.1.1.1 Field

Type: Microsoft.SharePoint.WorkManagement.Client.SortableTaskField

Accessibility: Read/Write

Specifies the field to be used for sorting.

3.1.5.20.1.1.2 IsDescending

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the sorting SHOULD be descending (true) or ascending (false).

3.1.5.20.1.2 ObjectPath Properties

None.

3.1.5.20.2 Methods

3.1.5.20.2.1 Scalar Methods

None.

3.1.5.20.2.2 ObjectPath Methods

3.1.5.20.2.2.1 CSOM Constructor

Creates a new **OrderInfo** object.

Parameters: None

3.1.5.21 Microsoft.SharePoint.WorkManagement.Client.PinAge

ShortName: SP.WorkManagement.OM.PinAge

Flag: false

Defines the time period since the pin was created.

3.1.5.21.1 Field Values

3.1.5.21.1.1 NoValue

Value: 0

No value.

3.1.5.21.1.2 Fresh

Value: 1

Specifies that the pin is fresh.

3.1.5.21.1.3 Stale

Value: 2

Specifies that the pin is stale.

3.1.5.22 Microsoft.SharePoint.WorkManagement.Client.PinnedState

ShortName: SP.WorkManagement.OM.PinnedState

Flag: false

Defines the pin state values.

3.1.5.22.1 Field Values

3.1.5.22.1.1 NoValue

Value: 0

No value.

3.1.5.22.1.2 Pinned

Value: 1

Specifies that the task (3) is pinned.

3.1.5.22.1.3 NotPinned

Value: 2

Specifies that the task (3) is not pinned.

3.1.5.23 Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfo

TypeId: {86FAD6B1-B741-43FD-8822-EE12938C5C13}

ShortName: SP.WorkManagement.OM.ProviderErrorInfo

Represents information about an error coming from a task provider.

3.1.5.23.1 Properties

3.1.5.23.1.1 Scalar Properties

3.1.5.23.1.1.1 CorrelationId

Type: CSOM String

Accessibility: Read/Write

Specifies the unique identifier for the request or operation on the server (2) associated with the error.

3.1.5.23.1.1.2 LastSuccessfulRefresh

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time of the last successful refresh.

3.1.5.23.1.1.3 LocalizedName

Type: CSOM String

Accessibility: Read/Write

Specifies the localized name of the provider that caused the error.

3.1.5.23.1.2 ObjectPath Properties

None.

3.1.5.23.2 Methods

3.1.5.23.2.1 Scalar Methods

None.

3.1.5.23.2.2 ObjectPath Methods

None.

3.1.5.24

Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfoClientCollection

TypeId: {8D2243E2-6F6F-47F1-A0CA-97DBA1D8AA25}

ShortName: SP.WorkManagement.OM.ProviderErrorInfoClientCollection

Represents a collection of **ProviderErrorInfo** objects as specified in section [3.1.5.23](#).

3.1.5.24.1 Properties

3.1.5.24.1.1 Scalar Properties

None.

3.1.5.24.1.2 ObjectPath Properties

None.

3.1.5.24.2 Methods

3.1.5.24.2.1 Scalar Methods

None.

3.1.5.24.2.2 ObjectPath Methods

None.

3.1.5.25 Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatus

TypeId: {1B347470-E983-40EE-A794-0719DE3B37E6}

ShortName: SP.WorkManagement.OM.ProviderRefreshStatus

Represents the status of a provider refresh.

3.1.5.25.1 Properties

3.1.5.25.1.1 Scalar Properties

3.1.5.25.1.1.1 ProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the provider identifier.

3.1.5.25.1.1.2 ProviderLocalizedName

Type: CSOM String

Accessibility: Read/Write

Specifies the localized name of the provider.

3.1.5.25.1.1.3 RefreshFinished

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh finished.

3.1.5.25.1.1.4 RefreshStarted

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh started.

3.1.5.25.1.1.5 RootLocationId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the root location identifier of the provider.

3.1.5.25.1.2 ObjectPath Properties

None.

3.1.5.25.2 Methods

3.1.5.25.2.1 Scalar Methods

None.

3.1.5.25.2.2 ObjectPath Methods

None.

3.1.5.26

Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatusClientCollection

TypeId: {934100A6-C55C-4CB5-BE34-E723029FC017}

ShortName: SP.WorkManagement.OM.ProviderRefreshStatusClientCollection

Represents a collection of **ProviderRefreshStatus** objects as specified in section [3.1.5.25](#).

3.1.5.26.1 Properties

3.1.5.26.1.1 Scalar Properties

None.

3.1.5.26.1.2 ObjectPath Properties

None.

3.1.5.26.2 Methods

3.1.5.26.2.1 Scalar Methods

None.

3.1.5.26.2.2 ObjectPath Methods

None.

3.1.5.27 Microsoft.SharePoint.WorkManagement.Client.RefreshResult

TypeId: {AF042356-0857-4F34-B227-2E0B90956E3F}

ShortName: SP.WorkManagement.OM.RefreshResult

Represents information about a refresh.

3.1.5.27.1 Properties

3.1.5.27.1.1 Scalar Properties

3.1.5.27.1.1.1 AggregatorRefreshState

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshState

Accessibility: Read/Write

Specifies the state of the aggregator refresh.

3.1.5.27.1.1.2 CorrelationId

Type: CSOM String

Accessibility: Read/Write

Specifies the **CorrelationId** of the error.

3.1.5.27.1.1.3 RefreshFinished

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh finished.

3.1.5.27.1.1.4 RefreshId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the refresh identifier.

3.1.5.27.1.2 ObjectPath Properties

3.1.5.27.1.2.1 TaskChangesByLocation

Type: Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResultClientCollection

Accessibility: Read/Write

Specifies a collection of updated task (3) results per location.

3.1.5.27.1.2.2 ProviderStatuses

Type: Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatusClientCollection

Accessibility: Read/Write

Specifies the collection containing the statuses of the providers.

3.1.5.27.2 Methods

3.1.5.27.2.1 Scalar Methods

None.

3.1.5.27.2.2 ObjectPath Methods

None.

3.1.5.28

Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfoClientCollection

TypeId: {D81EC1DF-7F4B-4654-A46D-518DDEB9D674}

ShortName: SP.WorkManagement.OM.RefreshEventInfoClientCollection

Represents a collection of **RefreshEventInfo** objects as specified in section [3.1.5.27](#).

3.1.5.28.1 Properties

3.1.5.28.1.1 Scalar Properties

None.

3.1.5.28.1.2 ObjectPath Properties

None.

3.1.5.28.2 Methods

3.1.5.28.2.1 Scalar Methods

None.

3.1.5.28.2.2 ObjectPath Methods

None.

3.1.5.29 Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

TypeId: {7F30CB13-9617-4FE3-936F-D3C0BEA1B2F7}

ShortName: SP.WorkManagement.OM.RefreshHistory

Represents information about the refresh history.

3.1.5.29.1 Properties

3.1.5.29.1.1 Scalar Properties

None.

3.1.5.29.1.2 ObjectPath Properties

3.1.5.29.1.2.1 Refreshes

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfoClientCollection

Accessibility: Read/Write

Specifies the **RefreshEventInfo** objects (section [3.1.5.27](#)) representing all refresh operations for the current user.

3.1.5.29.2 Methods

3.1.5.29.2.1 Scalar Methods

None.

3.1.5.29.2.2 ObjectPath Methods

None.

3.1.5.30 Microsoft.SharePoint.WorkManagement.Client.RefreshState

ShortName: SP.WorkManagement.OM.RefreshState

Flag: false

Defines the refresh state values.

3.1.5.30.1 Field Values

3.1.5.30.1.1 NoValue

Value: 0

No value.

3.1.5.30.1.2 Pending

Value: 1

Specifies that the refresh is pending.

3.1.5.30.1.3 Ignored

Value: 2

Specifies that the refresh was ignored.

3.1.5.30.1.4 Succeeded

Value: 3

Specifies that the refresh succeeded.

3.1.5.30.1.5 Failed

Value: 4

Specifies that the refresh failed.

3.1.5.31 Microsoft.SharePoint.WorkManagement.Client.SortableSession

TypeId: {5C81F0EA-999B-411E-A692-5962B32B206F}

ShortName: SP.WorkManagement.OM.SortableSession

Represents a session (2) of tasks (3) with a sort order.

3.1.5.31.1 Properties

3.1.5.31.1.1 Scalar Properties

None.

3.1.5.31.1.2 ObjectPath Properties

None.

3.1.5.31.2 Methods

3.1.5.31.2.1 Scalar Methods

3.1.5.31.2.1.1 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.31.2.1.2 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.31.2.2 ObjectPath Methods

3.1.5.31.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.31.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.31.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.31.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.31.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

Returns information about the latest task (3) cache refresh.

Parameters:

since: Specifies the date on which the history starts.

Type: CSOM DateTime

3.1.5.31.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshResult

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.31.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.31.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection

Returns an ordered collection of tasks (3), filtered by the given query.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery

3.1.5.31.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.31.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.31.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.31.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value of the field.

Type: CSOM String

3.1.5.31.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.31.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.31.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to be refreshed.

Type: CSOM Int32

3.1.5.31.2.2.15 GetRefreshHealthInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo

Gets the refresh health information.

Parameters: None

3.1.5.31.2.2.16 CreatePersonalTaskAndPromoteToProviderTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **CreatePersonalTaskAndPromoteToProviderTask** method creates a new personal task (3) and then tries to promote it to the provider specified by the *locationKey* parameter.

This is a convenience method that is the equivalent of calling **CreateTask** and then **PromotePersonalTaskToProviderTaskInLocation**.

If the location key is invalid, or the promote fails in the provider, the personal task (3) can already have been created and will not be cleaned up.

For more details on how the promote step works, please check the **PromotePersonalTaskToProviderTaskToLocation** method.

Parameters:

taskName: The name of the task (3).

Type: CSOM String

description: The description of the task (3).

Type: CSOM String

localizedStartDate: The start date in a localized string.

Type: CSOM String

localizedDueDate: The due date in a localized string.

Type: CSOM String

completed: Specifies whether the task (3) is finished.

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (3). -1 for personal tasks (3).

Type: CSOM Int32

3.1.5.31.2.2.17 PromotePersonalTaskToProviderTaskInLocation

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **PromotePersonalTaskToProviderTaskInLocation** method makes a copy of the specified task (3) in the data source of the specified location and links it to the AWIOP representation.

For example, if the location identifier points to a list (1), calling this method would result in a task (3) being created in that list. The AWIOP task (3) would be changed to be a linked task (3) rather than a personal one, as if the task (3) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (3).

Type: CSOM Int32

locationId: The identifier of the location.

Type: CSOM Int32

3.1.5.32 Microsoft.SharePoint.WorkManagement.Client.SortableSessionManager

TypeId: {924B1779-998E-4C60-A291-78EDEBC3C202}

ShortName: SP.WorkManagement.OM.SortableSessionManager

Manages sortable sessions (2), as specified in section [3.1.5.31](#).

3.1.5.32.1 Properties

3.1.5.32.1.1 Scalar Properties

None.

3.1.5.32.1.2 ObjectPath Properties

None.

3.1.5.32.2 Methods

3.1.5.32.2.1 Scalar Methods

None.

3.1.5.32.2.2 ObjectPath Methods

3.1.5.32.2.2.1 CreateLocationOrientedSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession

Creates a location-oriented sortable session (2).

Parameters: None

3.1.5.32.2.2.2 CreateSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.SortableSession

Creates a sortable session (2).

Parameters: None

3.1.5.32.2.2.3 CSOM Constructor

Creates a new **SortableSessionManager** object.

Parameters: None

3.1.5.33 Microsoft.SharePoint.WorkManagement.Client.SortableTaskField

ShortName: SP.WorkManagement.OM.SortableTaskField

Flag: false

Defines the sortable task (3) fields.

3.1.5.33.1 Field Values

3.1.5.33.1.1 NoValue

Value: 0

No value.

3.1.5.33.1.2 IsCompleted

Value: 13

Specifies the **IsCompleted** field.

3.1.5.33.1.3 Id

Value: 1

Specifies the **Id** field.

3.1.5.33.1.4 DueDate

Value: 5

Specifies the **DueDate** field.

3.1.5.33.1.5 Description

Value: 4

Specifies the **Description** field.

3.1.5.33.1.6 PinAge

Value: 22

Specifies the **PinAge** field.

3.1.5.33.1.7 Location

Value: 18

Specifies the **Location** field.

3.1.5.33.1.8 LastModified

Value: 17

Specifies the **LastModified** field.

3.1.5.33.1.9 DiscoveredDate

Value: 2

Specifies the date when the task (3) was discovered.

3.1.5.33.1.10 Title

Value: 21

Specifies the **Title** field.

3.1.5.34 Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery

TypeId: {F43AB2F6-B0E1-46F7-8FF6-A96540F7F595}

ShortName: SP.WorkManagement.OM.SortableTaskQuery

Represents a task (3) query with a sort order.

3.1.5.34.1 Properties

3.1.5.34.1.1 Scalar Properties

None.

3.1.5.34.1.2 ObjectPath Properties

3.1.5.34.1.2.1 CoreQuery

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQuery

Accessibility: Read/Write

Specifies the core task (3) query.

3.1.5.34.1.2.2 Order

Type: Microsoft.SharePoint.WorkManagement.Client.OrderInfo

Accessibility: Read/Write

Specifies the ordering for the task (3) query result.

3.1.5.34.2 Methods

3.1.5.34.2.1 Scalar Methods

None.

3.1.5.34.2.2 ObjectPath Methods

3.1.5.34.2.2.1 CSOM Constructor

Creates a new **SortableTaskQuery** object.

Parameters: None

3.1.5.35 Microsoft.SharePoint.WorkManagement.Client.StringCompareType

ShortName: SP.WorkManagement.OM.StringCompareType

Flag: false

Defines string comparison operators that can be used when filtering queries on a string property.

3.1.5.35.1 Field Values

3.1.5.35.1.1 NoValue

Value: 0

No value.

3.1.5.35.1.2 Equals

Value: 1

Specifies that the strings are equal.

3.1.5.35.1.3 Contains

Value: 2

Specifies that one string is a substring of the other string.

3.1.5.35.1.4 BeginsWith

Value: 3

Specifies that one string begins with the other string.

3.1.5.36 Microsoft.SharePoint.WorkManagement.Client.Task

TypeId: {AF0507B6-EF4F-4029-A48A-943AFE14AEA6}

ShortName: SP.WorkManagement.OM.Task

Represents a task (3).

3.1.5.36.1 Properties

3.1.5.36.1.1 Scalar Properties

3.1.5.36.1.1.1 CustomAttributes

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies the custom attributes of the task (3).

3.1.5.36.1.1.2 Description

Type: CSOM String

Accessibility: Read/Write

Specifies the task (3) description.

3.1.5.36.1.1.3 DueDate

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the task (3) due date.

3.1.5.36.1.1.4 EditUrl

Type: CSOM String

Accessibility: Read/Write

Specifies the URL to edit the task (3).

3.1.5.36.1.1.5 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the task (3) identifier.

3.1.5.36.1.1.6 IsCompleted

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the task (3) is finished (true) or not (false).

3.1.5.36.1.1.7 IsPersonal

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the task (3) is personal (true) or not (false).

3.1.5.36.1.1.8 LastModified

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the last time the task (3) was modified.

3.1.5.36.1.1.9 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the task (3) name.

3.1.5.36.1.1.10 PinAge

Type: Microsoft.SharePoint.WorkManagement.Client.PinAge

Accessibility: Read/Write

Specifies the time period since the pin of the task (3) was created.

3.1.5.36.1.1.11 SerializedCustomDataForClient

Type: CSOM String

Accessibility: Read/Write

Specifies serialized custom data for a task (3).

3.1.5.36.1.1.12 StartDate

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the task (3) starts.

3.1.5.36.1.1.13 LocationId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.36.1.1.14 IsReadOnly

Type: CSOM Boolean

Accessibility: Read/Write

A property that MAY be used to specify whether a task (3) is read-only (true) or not (false).

3.1.5.36.1.2 ObjectPath Properties

None.

3.1.5.36.2 Methods

3.1.5.36.2.1 Scalar Methods

None.

3.1.5.36.2.2 ObjectPath Methods

3.1.5.36.2.2.1 CSOM Constructor

Creates a new **Task** object.

Parameters: None

3.1.5.37 Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection

TypeId: {1A855A95-EE52-4A94-B0AB-7020DDA6972A}

ShortName: SP.WorkManagement.OM.TaskClientCollection

Represents a collection of tasks (3).

3.1.5.37.1 Properties

3.1.5.37.1.1 Scalar Properties

None.

3.1.5.37.1.2 ObjectPath Properties

None.

3.1.5.37.2 Methods

3.1.5.37.2.1 Scalar Methods

None.

3.1.5.37.2.2 ObjectPath Methods

3.1.5.37.2.2.1 CSOM Constructor

Creates a new **TaskClientCollection** object.

Parameters: None

3.1.5.38 Microsoft.SharePoint.WorkManagement.Client.TaskFilter

TypeId: {3188516D-D569-40F8-8C01-1D48FBF5243C}

ShortName: SP.WorkManagement.OM.TaskFilter

Represents task (3) filter parameters for a task (3) query.

3.1.5.38.1 Properties

3.1.5.38.1.1 Scalar Properties

3.1.5.38.1.1.1 CriterionConcatType

Type: Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

Accessibility: Read/Write

Specifies the operator type for evaluating multiple filter clauses or task (3) identifiers in the query.

3.1.5.38.1.1.2 IdsToFilterBy

Type: CSOM array of CSOM Int32

Accessibility: Read/Write

Specifies the task (3) identifiers to be included in the query.

3.1.5.38.1.2 ObjectPath Properties

3.1.5.38.1.2.1 CompletedCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by completion state.

3.1.5.38.1.2.2 DueDateRangeCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by due date within a specified range.

3.1.5.38.1.2.3 IsNewCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) that are newly discovered.

3.1.5.38.1.2.4 NameCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.NameCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by name.

3.1.5.38.1.2.5 StartDateRangeCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by start date in a specified range.

3.1.5.38.2 Methods

3.1.5.38.2.1 Scalar Methods

None.

3.1.5.38.2.2 ObjectPath Methods

3.1.5.38.2.2.1 CSOM Constructor

Creates a new **TaskFilter** object.

Parameters: None

3.1.5.39 Microsoft.SharePoint.WorkManagement.Client.TaskQuery

TypeId: {70C9591D-9A78-404A-9FE8-B50B1E02CD93}

ShortName: SP.WorkManagement.OM.TaskQuery

Represents a query used to retrieve tasks (3) from the server (2).

3.1.5.39.1 Properties

3.1.5.39.1.1 Scalar Properties

3.1.5.39.1.1.1 KeywordFilter

Type: CSOM String

Accessibility: Read/Write

Specifies the keywords for the query.

3.1.5.39.1.1.2 LastQueryTime

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the last query time.

3.1.5.39.1.1.3 PinnedFilter

Type: Microsoft.SharePoint.WorkManagement.Client.PinnedState

Accessibility: Read/Write

Specifies the pinned state for the query.

3.1.5.39.1.2 ObjectPath Properties

3.1.5.39.1.2.1 CustomAttributeFilter

Type: Microsoft.SharePoint.WorkManagement.Client.CustomAttributeFilter

Accessibility: Read/Write

Specifies the custom attributes for the query.

3.1.5.39.1.2.2 FieldFilter

Type: Microsoft.SharePoint.WorkManagement.Client.TaskFilter

Accessibility: Read/Write

Specifies the fields for the query.

3.1.5.39.1.2.3 LastModifiedDateRangeFilter

Type: Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

Accessibility: Read/Write

Specifies the last modified date range for the query.

3.1.5.39.1.2.4 LocationFilter

Type: Microsoft.SharePoint.WorkManagement.Client.LocationFilter

Accessibility: Read/Write

Specifies the location for the query.

3.1.5.39.2 Methods

3.1.5.39.2.1 Scalar Methods

None.

3.1.5.39.2.2 ObjectPath Methods

3.1.5.39.2.2.1 CSOM Constructor

Creates a new **TaskQuery** object.

Parameters: None

3.1.5.40 Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

TypeId: {B43C5CFA-0632-4F49-B196-0AF62106CC46}

ShortName: SP.WorkManagement.OM.TaskWriteResult

Represents the result of a task (3) write operation.

3.1.5.40.1 Properties

3.1.5.40.1.1 Scalar Properties

3.1.5.40.1.1.1 Error

Type: Microsoft.SharePoint.WorkManagement.Client.WriteFieldErrorType

Accessibility: Read/Write

Specifies the error type of the operation.

3.1.5.40.1.1.2 ErrorMessage

Type: CSOM String

Accessibility: Read/Write

Specifies the error message of the operation.

3.1.5.40.1.2 ObjectPath Properties

3.1.5.40.1.2.1 Result

Type: Microsoft.SharePoint.WorkManagement.Client.Task

Accessibility: Read/Write

Specifies the updated task (3) after the write operation.

3.1.5.40.2 Methods

3.1.5.40.2.1 Scalar Methods

None.

3.1.5.40.2.2 ObjectPath Methods

None.

3.1.5.41 Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession

TypeId: {76163D46-CD0D-4782-9069-9143CC45B991}

ShortName: SP.WorkManagement.OM.UserOrderedSession

Represents a session (2) with tasks (3) sorted by user.

3.1.5.41.1 Properties

3.1.5.41.1.1 Scalar Properties

None.

3.1.5.41.1.2 ObjectPath Properties

None.

3.1.5.41.2 Methods

3.1.5.41.2.1 Scalar Methods

3.1.5.41.2.1.1 ReorderTask

Return Type: None

Changes the order of a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

newAfterTaskKey: Specifies the task (3) identifier for the task (3) that *@taskKey* will be moved after.

Type: CSOM Int32

3.1.5.41.2.1.2 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.41.2.1.3 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.41.2.2 ObjectPath Methods

3.1.5.41.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.41.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.41.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.41.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.41.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

Returns information about the latest task (3) cache refresh.

Parameters:

since: Specifies the date on which the history starts.

Type: CSOM DateTime

3.1.5.41.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshResult

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.41.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.41.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection

Returns a collection of tasks (3) sorted by user-defined order, filtered by the given query.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQuery

3.1.5.41.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.41.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.41.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.41.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Enumerator indicating which field SHOULD be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value of the field.

Type: CSOM String

3.1.5.41.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.41.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.41.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to be refreshed.

Type: CSOM Int32

3.1.5.41.2.2.15 GetRefreshHealthInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo

Gets the refresh health information.

Parameters: None

3.1.5.41.2.2.16 CreatePersonalTaskAndPromoteToProviderTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **CreatePersonalTaskAndPromoteToProviderTask** method creates a new personal task (3) and then tries to promote it to the provider specified by the *locationKey* parameter.

This is a convenience method that is the equivalent of calling **CreateTask** and then **PromotePersonalTaskToProviderTaskInLocation**.

If the location key is invalid, or the promote fails in the provider, the personal task (3) can already have been created and will not be cleaned up.

For more details on how the promote step works, please see the **PromotePersonalTaskToProviderTaskToLocation** method.

Parameters:

taskName: The name of the task (3).

Type: CSOM String

description: The description of the task (3).

Type: CSOM String

localizedStartDate: The start date in a localized string.

Type: CSOM String

localizedDueDate: The due date in a localized string.

Type: CSOM String

completed: Specifies whether the task (3) is finished.

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (3). -1 for personal tasks (3).

Type: CSOM Int32

3.1.5.41.2.2.17 PromotePersonalTaskToProviderTaskInLocation

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **PromotePersonalTaskToProviderTaskInLocation** method makes a copy of the specified task (3) in the data source of the specified location and links it to the AWIOP representation.

For example, if the location identifier points to a list (1), calling this method would result in a task (3) being created in that list. The AWIOP task (3) would be changed to be a linked task (3) rather than a personal one, as if the task (3) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (3).

Type: CSOM Int32

locationId: The identifier of the location.

Type: CSOM Int32

3.1.5.42

Microsoft.SharePoint.WorkManagement.Client.UserOrderedSessionManager

TypeId: {D82117FB-E4AA-4AB8-B590-CB2BE4B2F078}

ShortName: SP.WorkManagement.OM.UserOrderedSessionManager

Manages sessions (2) that have a sort order, as specified in section [3.1.5.16](#) and section [3.1.5.41](#).

3.1.5.42.1 Properties

3.1.5.42.1.1 Scalar Properties

None.

3.1.5.42.1.2 ObjectPath Properties

None.

3.1.5.42.2 Methods

3.1.5.42.2.1 Scalar Methods

None.

3.1.5.42.2.2 ObjectPath Methods

3.1.5.42.2.2.1 CreateLocationOrientedSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession

Creates a user-ordered location-oriented session (2).

Parameters: None

3.1.5.42.2.2.2 CreateSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession

Creates a user-ordered session (2).

Parameters: None

3.1.5.42.2.2.3 CSOM Constructor

Creates a new **UserOrderedSessionManager** object.

Parameters: None

3.1.5.43 Microsoft.SharePoint.WorkManagement.Client.UserSettings

TypeId: {BEA67FB5-FB82-4388-B0E7-174BAA0EB51A}

ShortName: SP.WorkManagement.OM.UserSettings

Represents the settings for a user.

3.1.5.43.1 Properties

3.1.5.43.1.1 Scalar Properties

3.1.5.43.1.1.1 DaysAfterCurrentDateTimelineEnds

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days after the current day when the timeline ends.

3.1.5.43.1.1.2 DaysATaskIsConsideredNewTask

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days during which a task (3) is considered new.

3.1.5.43.1.1.3 DaysBeforeCurrentDateTimelineStarts

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days before the current day when the timeline started.

3.1.5.43.1.1.4 ImportantTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the maximum number of days during which a task (3) is marked as important.

3.1.5.43.1.1.5 InactiveMonthsBeforeLocationExpiration

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of months a location needs to be inactive before it expires.

3.1.5.43.1.1.6 LateTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the maximum number of days to show a late task (3).

3.1.5.43.1.1.7 OldTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of months after which a task (3) is marked as old.

3.1.5.43.1.1.8 UpcomingTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days to show a task (3) in the upcoming task (3) list (1).

3.1.5.43.1.1.9 ImportantLocationIds

Type: CSOM array of CSOM Int32

Accessibility: Read/Write

Specifies the locations that are important.

3.1.5.43.1.2 ObjectPath Properties

None.

3.1.5.43.2 Methods

3.1.5.43.2.1 Scalar Methods

None.

3.1.5.43.2.2 ObjectPath Methods

3.1.5.43.2.2.1 CSOM Constructor

Creates a new **UserSettings** object.

Parameters: None

3.1.5.44 Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager

TypeId: {73B6F1D6-C69C-4787-8413-2BB14D336410}

ShortName: SP.WorkManagement.OM.UserSettingsManager

Manages user settings, as specified in section [3.1.5.43](#).

3.1.5.44.1 Properties

3.1.5.44.1.1 Scalar Properties

None.

3.1.5.44.1.2 ObjectPath Properties

None.

3.1.5.44.2 Methods

3.1.5.44.2.1 Scalar Methods

3.1.5.44.2.1.1 SetUserSettings

Return Type: None

Saves the user settings.

Parameters:

settings: Specifies the user settings.

Type: Microsoft.SharePoint.WorkManagement.Client.UserSettings

locationColorUpdates: Specifies the display settings of the location.

Type: CSOM array of Microsoft.SharePoint.WorkManagement.Client.LocationDisplaySetting

3.1.5.44.2.1.2 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.44.2.1.3 OptIntoExchangeSync

Return Type: Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult

Turns on synchronization with a task (3) server (2) for a user. [<1>](#)

Parameters: None

3.1.5.44.2.1.4 OptOutOfExchangeSync

Return Type: CSOM Boolean

Turns off task (3) synchronization with a task (3) server (2) for a user. [<2>](#)

Parameters: None

3.1.5.44.2.1.5 SetPersistedProperties

Return Type: None

Sets metadata that persists across sessions (2) for a user.

Parameters:

persistedProperties: Specifies the property values to persist.

Type: Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

3.1.5.44.2.2 ObjectPath Methods

3.1.5.44.2.2.1 GetAllLocations

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Returns all the locations.

Parameters: None

3.1.5.44.2.2.2 GetImportantLocations

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Returns all the important locations.

Parameters: None

3.1.5.44.2.2.3 GetUserSettings

Return Type: Microsoft.SharePoint.WorkManagement.Client.UserSettings

Returns the user settings.

Parameters: None

3.1.5.44.2.2.4 GetLocations

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Returns a collection of locations.

Parameters:

locationsId: Specifies the location identifiers.

Type: CSOM array of CSOM Int32

3.1.5.44.2.2.5 CSOM Constructor

Creates a new **UserSettingsManager** object.

Parameters: None

3.1.5.44.2.2.6 GetExchangeSyncInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.ExchangeUserSyncState

Returns information about a server synchronization for a user. [<3>](#)

Parameters: None

3.1.5.44.2.2.7 GetPersistedProperties

Return Type: Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

Returns metadata that is persisted across sessions (2) for a user.

Parameters: None

3.1.5.45 Microsoft.SharePoint.WorkManagement.Client.ViewSelectionInfo

TypeId: {9C4B64C1-8722-45C0-9D9D-E61C2F36BB44}

ShortName: SP.WorkManagement.OM.ViewSelectionInfo

Represents information about the task (3) **view** selection.

3.1.5.45.1 Properties

3.1.5.45.1.1 Scalar Properties

3.1.5.45.1.1.1 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the view identifier.

3.1.5.45.1.1.2 Image

Type: CSOM String

Accessibility: Read/Write

Specifies the image identifier.

3.1.5.45.1.1.3 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the view name.

3.1.5.45.1.2 ObjectPath Properties

None.

3.1.5.45.2 Methods

3.1.5.45.2.1 Scalar Methods

None.

3.1.5.45.2.2 ObjectPath Methods

3.1.5.45.2.2.1 CSOM Constructor

Creates a new **ViewSelectionInfo** object.

Parameters: None

3.1.5.46 Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

ShortName: SP.WorkManagement.OM.WritableTaskField

Flag: false

Defines the fields that can be updated on a task (3).

3.1.5.46.1 Field Values

3.1.5.46.1.1 NoValue

Value: 0

No value.

3.1.5.46.1.2 IsCompleted

Value: 13

Specifies the **IsCompleted** field.

3.1.5.46.1.3 DueDate

Value: 5

Specifies the **DueDate** field.

3.1.5.46.1.4 Description

Value: 4

Specifies the **Description** field.

3.1.5.46.1.5 Title

Value: 21

Specifies the **Title** field.

3.1.5.46.1.6 EditUrl

Value: 6

Specifies the **EditUrl** field.

3.1.5.46.1.7 StartDate

Value: 28

Specifies the **StartDate** field.

3.1.5.47 Microsoft.SharePoint.WorkManagement.Client.WriteFieldType

ShortName: SP.WorkManagement.OM.WriteFieldType

Flag: false

Defines the error values from a field write.

3.1.5.47.1 Field Values

3.1.5.47.1.1 NoValue

Value: 0

No value.

3.1.5.47.1.2 TaskNotFound

Value: 1

Specifies that the task (3) was not found.

3.1.5.47.1.3 InvalidInput

Value: 2

Specifies that the format of the input was not valid.

3.1.5.47.1.4 TaskDeleted

Value: 3

Specifies that the task (3) was deleted.

3.1.5.47.1.5 FieldConflict

Value: 4

Specifies that there was a field conflict error.

3.1.5.47.1.6 Validation

Value: 5

Specifies that there was a validation error.

3.1.5.47.1.7 LocationInvalid

Value: 6

Specifies that the location was not valid.

3.1.5.47.1.8 Unknown

Value: 7

Specifies that there was an unknown error.

3.1.5.47.1.9 DueDateInvalid

Value: 8

Specifies that the due date was not valid.

3.1.5.47.1.10 StartDateInvalid

Value: 9

Specifies that the start date was not valid.

3.1.5.47.1.11 DescriptionInvalid

Value: 10

Specifies that the description was not valid.

3.1.5.47.1.12 IsCompletedInvalid

Value: 11

Specifies that the completion value was not valid.

3.1.5.47.1.13 TitleInvalid

Value: 12

Specifies that the title was not valid.

3.1.5.47.1.14 EditUrlInvalid

Value: 13

Specifies that the edit URL was not valid.

3.1.5.47.1.15 AccessDenied

Value: 14

Specifies that the user does not have sufficient privileges to write to the field

3.1.5.47.1.16 PromoteTargetTaskNotPersonal

Value: 15

Specifies that the task (3) is not a personal task (3), and therefore cannot be promoted.

3.1.5.47.1.17 PromotionFailedInProvider

Value: 16

Specifies that the provider failed to promote the task (3).

3.1.5.48 Microsoft.SharePoint.WorkManagement.Client.PrivacyType

ShortName: SP.WorkManagement.OM.PrivacyType

Flag: false

Defines the privacy state values.

3.1.5.48.1 Field Values

3.1.5.48.1.1 None

Value: 0

None.

3.1.5.48.1.2 Personal

Value: 1

Specifies that a task (3) is personal and visible only to the user.

3.1.5.48.1.3 Public

Value: 2

Specifies that the task (3) was aggregated from another location.

3.1.5.49 Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

TypeId: {B869CD40-9A6E-4C16-916F-C73EE85745CB}

ShortName: SP.WorkManagement.OM.CalloutInfo

Represents supplemental information about a task (3).

3.1.5.49.1 Properties

3.1.5.49.1.1 Scalar Properties

3.1.5.49.1.1.1 Contacts

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies users that the current task (3) is assigned to other than the current user.

3.1.5.49.1.1.2 DirectLinkTitle

Type: CSOM String

Accessibility: Read/Write

The title of the direct link for the list (1) of tasks (3) where this task (3) is included.

3.1.5.49.1.1.3 DirectLinkUrl

Type: CSOM String

Accessibility: Read/Write

Url for the direct link for the list (1) of tasks (3) where this task (3) is included.

3.1.5.49.1.1.4 Hierarchy

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies tasks (3) that are parents of the current task (3).

3.1.5.49.1.1.5 Predecessors

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies tasks (3) that the current task (3) depends on.

3.1.5.49.1.1.6 Successors

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies tasks (3) that depend on the current task (3).

3.1.5.49.1.1.7 Title

Type: CSOM String

Accessibility: Read/Write

The title of the tasks (3) container.

3.1.5.49.1.1.8 Url

Type: CSOM String

Accessibility: Read/Write

Specifies the URL to edit the task (3).

3.1.5.49.1.2 ObjectPath Properties

None.

3.1.5.49.2 Methods

3.1.5.49.2.1 Scalar Methods

None.

3.1.5.49.2.2 ObjectPath Methods

None.

3.1.5.50

Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfoClientCollection

TypeId: {03644911-E5E9-4504-9F73-85D50B9DD6A0}

ShortName: SP.WorkManagement.OM.DashboardScriptExtensionInfoClientCollection

Represents a collection of **DashboardScriptExtensionInfo** objects (section [3.1.5.7](#)).

3.1.5.50.1 Properties

3.1.5.50.1.1 Scalar Properties

None.

3.1.5.50.1.2 ObjectPath Properties

None.

3.1.5.50.2 Methods

3.1.5.50.2.1 Scalar Methods

None.

3.1.5.50.2.2 ObjectPath Methods

None.

3.1.5.51 Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult

ShortName: SP.WorkManagement.OM.ExchangeOptInResult

Flag: false

Represents status information for an operation to enable synchronization with an external task (3) server (2) for a user.

3.1.5.51.1 Field Values

3.1.5.51.1.1 NoValue

Value: 0

No value.

3.1.5.51.1.2 Success

Value: 1

Specifies that the operation succeeded.

3.1.5.51.1.3 UnknownError

Value: 2

Specifies that there was an unknown error when enabling synchronization.

3.1.5.51.1.4 CouldNotConnectToExchange

Value: 3

Specifies that the operation could not connect with the external task (3) server (2).

3.1.5.51.1.5 CouldNotFindOrCreateMySite

Value: 4

Specifies that the synchronization operation could not find or create the user's personal site (2) in which to store synchronization data.

3.1.5.51.1.6 UserAlreadyOptedIn

Value: 5

Specifies that the user has already enabled task (3) server (2) synchronization.

3.1.5.51.1.7 UserExchangeOperationPending

Value: 6

Specifies that an operation to enable synchronization is already in process.

3.1.5.51.1.8 UnsupportedExchangeVersion

Value: 7

Specifies that the version of the task (3) server (2) is not compatible with the synchronization operation.

3.1.5.51.1.9 MissingEmailAddress

Value: 8

Specifies that the user's email address could not be found in the User Profile Service.

3.1.5.51.1.10 ExchangeWebServiceClientMissing

Value: 9

Specifies that the component required to connect to the external task (3) server (2) is not available.

3.1.5.51.1.11 UnsupportedSharePointConfiguration

Value: 10

Specifies that the local server (2) is not configured correctly for synchronization with an external task (3) server (2).

3.1.5.51.1.12 InvalidOrUnauthorizedUser

Value: 11

Specifies that the user specified is not valid or unauthorized on the external task (3) server (2).

3.1.5.51.1.13 CouldNotActivateExchangeSyncFeatureOnSiteSubscription

Value: 12

Specifies that the synchronization operation could not be activated on the local server (2).

3.1.5.52 Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult

ShortName: SP.WorkManagement.OM.ExchangeSyncResult

Flag: false

Represents information about a task (3) server synchronization operation.

3.1.5.52.1 Field Values

3.1.5.52.1.1 NoValue

Value: 0

No value.

3.1.5.52.1.2 Success

Value: 1

Specifies that the synchronization operation succeeded.

3.1.5.52.1.3 UnknownError

Value: 2

Specifies that there was an unknown error during the synchronization.

3.1.5.52.1.4 CouldNotConnectToExchange

Value: 3

Specifies that the operation could not connect with the external task (3) server (2).

3.1.5.52.1.5 CouldNotGetUserCredentials

Value: 4

Specifies that the operation could not get credentials for the user it was trying to synchronize.

3.1.5.52.1.6 CouldNotKickoffJob

Value: 5

Specifies that a synchronization operation could not be started.

3.1.5.52.1.7 SyncWithErrors

Value: 6

Specifies that the synchronization finished but with errors.

3.1.5.53 Microsoft.SharePoint.WorkManagement.Client.ExchangeUserSyncState

TypeId: {DF02E325-1546-4E32-BEDE-704630D31669}

ShortName: SP.WorkManagement.OM.ExchangeUserSyncState

Represents status for external task (3) server (2) synchronization operations for a user.

3.1.5.53.1 Properties

3.1.5.53.1.1 Scalar Properties

3.1.5.53.1.1.1 IsOptedIn

Type: CSOM Boolean

Accessibility: Read Only

Specifies whether synchronization is enabled for a user or not.

3.1.5.53.1.1.2 LastEndTime

Type: CSOM DateTime

Accessibility: Read Only

Specifies when the last synchronization operation finished.

3.1.5.53.1.1.3 LastSyncResult

Type: Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult

Accessibility: Read Only

Specifies the outcome of the last synchronization operation for the user.

3.1.5.53.1.2 ObjectPath Properties

None.

3.1.5.53.2 Methods

3.1.5.53.2.1 Scalar Methods

None.

3.1.5.53.2.2 ObjectPath Methods

None.

3.1.5.54 Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

TypeId: {D1A564B4-5E35-4A5B-92B6-99DC85DACDA4}

ShortName: SP.WorkManagement.OM.NonTaskDataReadResult

Represents information about a user's task (3) list (1) and experience settings that is not specific to the tasks (3) themselves.

3.1.5.54.1 Properties

3.1.5.54.1.1 Scalar Properties

None.

3.1.5.54.1.2 ObjectPath Properties

3.1.5.54.1.2.1 AllLocatons

Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Accessibility: Read Only

Specifies the location of sources from which tasks (3) were aggregated.

3.1.5.54.1.2.2 PersistedProperties

Type: Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

Accessibility: Read Only

Specifies persisted properties for the user.

3.1.5.54.1.2.3 RefreshHistory

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

Accessibility: Read Only

Specifies information about the last time the user's tasks (3) list (1) was updated.

3.1.5.54.1.2.4 ScriptExtensions

Type: Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfoClientCollection

Accessibility: Read Only

Specifies script extensions for task providers.

3.1.5.54.1.2.5 UserSettings

Type: Microsoft.SharePoint.WorkManagement.Client.UserSettings

Accessibility: Read Only

Specifies the setting values for the user.

3.1.5.54.2 Methods

3.1.5.54.2.1 Scalar Methods

None.

3.1.5.54.2.2 ObjectPath Methods

None.

3.1.5.55 Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

TypeId: {C05EBF4C-F2C5-4167-9043-F21C4E1B682D}

ShortName: SP.WorkManagement.OM.PersistedProperties

Represents properties about the user's last interaction with system that is persisted the next time the user loads the user experience.

3.1.5.55.1 Properties

3.1.5.55.1.1 Scalar Properties

3.1.5.55.1.1.1 FilteredLocationIds

Type: CSOM array of CSOM Int32

Accessibility: Read/Write

Specifies the locations filtered by the user in the user experience.

3.1.5.55.1.1.2 GroupByProjects

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the user's task (3) list (1) is displayed as grouped by project or as a flat list (1).

3.1.5.55.1.1.3 HasShownMarkAsImportantCallout

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the user has been prompted to try to set a pin on a task (3) or not.

3.1.5.55.1.1.4 HasShownTaskListTooLongNotification

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the user has been prompted that the user's task (3) list (1) has accumulated a large number of tasks (3) or not.

3.1.5.55.1.1.5 QuickLaunchLandingPage

Type: CSOM String

Accessibility: Read/Write

Specifies the default view when navigating to the user experience.

3.1.5.55.1.2 ObjectPath Properties

None.

3.1.5.55.2 Methods

3.1.5.55.2.1 Scalar Methods

None.

3.1.5.55.2.2 ObjectPath Methods

3.1.5.55.2.2.1 CSOM Constructor

Creates a new **PersistedProperties** object.

Parameters: None

3.1.5.56 Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

TypeId: {7F3B5192-690D-40F0-A69F-553268333A61}

ShortName: SP.WorkManagement.OM.TaskRefreshResult

Represents result information when updating a specific task (3) from its source.

3.1.5.56.1 Properties

3.1.5.56.1.1 Scalar Properties

3.1.5.56.1.1.1 ErrorCorrelationId

Type: CSOM String

Accessibility: Read/Write

Specifies the unique identifier for the request or operation associated with an error if an error occurred during the update.

3.1.5.56.1.1.2 RefreshState

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshState

Accessibility: Read/Write

Specifies the refresh state for the operation.

3.1.5.56.1.2 ObjectPath Properties

3.1.5.56.1.2.1 Result

Type: Microsoft.SharePoint.WorkManagement.Client.Task

Accessibility: Read/Write

Specifies the updated task (3) after applying the updates.

3.1.5.56.2 Methods

3.1.5.56.2.1 Scalar Methods

None.

3.1.5.56.2.2 ObjectPath Methods

None.

3.1.5.57

Microsoft.SharePoint.WorkManagement.Client.TaskQueryByLocationResult

TypeId: {C71139AF-B900-4597-B03F-B46E7605C163}

ShortName: SP.WorkManagement.OM.TaskQueryByLocationResult

Represents the result of reading tasks (3) by location.

3.1.5.57.1 Properties

3.1.5.57.1.1 Scalar Properties

3.1.5.57.1.1.1 Error

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQueryErrorType

Accessibility: Read/Write

The error type of the operation.

3.1.5.57.1.1.2 ErrorMessage

Type: CSOM String

Accessibility: Read/Write

The error message for the failed task (3) query.

3.1.5.57.1.2 ObjectPath Properties

3.1.5.57.1.2.1 Results

Type: Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection

Accessibility: Read/Write

A collection with information about each task (3).

3.1.5.57.2 Methods

3.1.5.57.2.1 Scalar Methods

None.

3.1.5.57.2.2 ObjectPath Methods

None.

3.1.5.58 Microsoft.SharePoint.WorkManagement.Client.TaskQueryErrorType

ShortName: SP.WorkManagement.OM.TaskQueryErrorType

Flag: false

A method that enumerates the error during a task (3) query.

3.1.5.58.1 Field Values

3.1.5.58.1.1 NoValue

Value: 0

3.1.5.58.1.2 QueryThrottled

Value: 1

3.1.5.59 Microsoft.SharePoint.WorkManagement.Client.TaskQueryResult

TypeId: {CB846FB7-0B8D-4D39-B1AE-6229C635F25B}

ShortName: SP.WorkManagement.OM.TaskQueryResult

A method that represents the result of reading tasks (3).

3.1.5.59.1 Properties

3.1.5.59.1.1 Scalar Properties

3.1.5.59.1.1.1 Error

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQueryErrorType

Accessibility: Read/Write

The error type of the operation.

3.1.5.59.1.1.2 ErrorMessage

Type: CSOM String

Accessibility: Read/Write

The error message for the failed task (3) query.

3.1.5.59.1.2 ObjectPath Properties

3.1.5.59.1.2.1 Results

Type: Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection

Accessibility: Read/Write

A collection with information about each task (3).

3.1.5.59.2 Methods

3.1.5.59.2.1 Scalar Methods

None.

3.1.5.59.2.2 ObjectPath Methods

None.

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

4 Protocol Examples

4.1 Retrieving Active Tasks for a User

This example calls **ReadTasks** (section [3.1.5.16.2.2.8](#)) to get all tasks (3) that are not complete for the current user.

Request

```
<Request xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009"
SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0" ApplicationName="Javascript Library">
  <Actions>
    <ObjectPath Id="17" ObjectPathId="16" />
    <ObjectPath Id="19" ObjectPathId="18" />
    <ObjectPath Id="21" ObjectPathId="20" />
    <ObjectPath Id="23" ObjectPathId="22" />
    <ObjectPath Id="25" ObjectPathId="24" />
    <ObjectPath Id="27" ObjectPathId="26" />
    <ObjectPath Id="29" ObjectPathId="28" />
    <ObjectPath Id="31" ObjectPathId="30" />
    <SetProperty Id="32" ObjectPathId="28" Name="LocationFilter">
      <Parameter ObjectPathId="30" />
    </SetProperty>
    <SetProperty Id="33" ObjectPathId="30" Name="LocationKeys">
      <Parameter Type="Array" />
    </SetProperty>
    <SetProperty Id="34" ObjectPathId="30" Name=" IncludeUncategorizedTasks">
      <Parameter Type="Boolean">true</Parameter>
    </SetProperty>
    <SetProperty Id="35" ObjectPathId="28" Name="KeywordFilter">
      <Parameter Type="Null" />
    </SetProperty>
    <ObjectPath Id="37" ObjectPathId="36" />
    <SetProperty Id="38" ObjectPathId="28" Name="FieldFilter">
      <Parameter ObjectPathId="36" />
    </SetProperty>
    <ObjectPath Id="40" ObjectPathId="39" />
    <SetProperty Id="41" ObjectPathId="36" Name="CompletedCriterion">
      <Parameter ObjectPathId="39" />
    </SetProperty>
    <SetProperty Id="42" ObjectPathId="39" Name="CompareType">
      <Parameter Type="Number">2</Parameter>
    </SetProperty>
    <ObjectPath Id="44" ObjectPathId="43" />
    <SetProperty Id="45" ObjectPathId="28" Name="LastModifiedDateRangeFilter">
      <Parameter ObjectPathId="43" />
    </SetProperty>
    <SetProperty Id="46" ObjectPathId="43" Name="RangeStartValue">
      <Parameter Type="DateTime">2009-11-17T23:34:52.370-08:00</Parameter>
    </SetProperty>
    <ObjectPath Id="48" ObjectPathId="47" />
    <ObjectPath Id="50" ObjectPathId="49" />
    <Query Id="51" ObjectPathId="49">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="53" ObjectPathId="52" />
  </Actions>
</Request>
```

```

<Query Id="54" ObjectPathId="52">
  <Query SelectAllProperties="true">
    <Properties />
  </Query>
  <ChildItemQuery SelectAllProperties="true">
    <Properties />
  </ChildItemQuery>
</Query>
</Actions>
<ObjectPaths>
  <Constructor Id="16" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="18" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="20" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="22" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="24" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="26" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="28" TypeId="{70c9591d-9a78-404a-9fe8-b50b1e02cd93}" />
  <Constructor Id="30" TypeId="{d9ce752e-01ed-4872-b4da-fc362038fbf0}" />
  <Constructor Id="36" TypeId="{3188516d-d569-40f8-8c01-1d48fbf5243c}" />
  <Constructor Id="39" TypeId="{16d379b2-e752-405e-a05f-a8fe05aa0d07}" />
  <Constructor Id="43" TypeId="{c9c79001-8e9d-4f24-860b-55bd22c13eae}" />
  <Constructor Id="47" TypeId="{d82117fb-e4aa-4ab8-b590-cb2be4b2f078}" />
  <Method Id="49" ParentId="47" Name="CreateLocationOrientedSession" />
  <Method Id="52" ParentId="49" Name="ReadTasks">
    <Parameters>
      <Parameter ObjectPathId="28" />
    </Parameters>
  </Method>
</ObjectPaths>
</Request>

```

Response

The server (2) returns a list (1) of tasks (3), which are named "Pay Rent", "Get Groceries", and "Remember the Milk".

```

[ { "ErrorInfo" : null,
  "LibraryVersion" : "15.0.3510.3000",
  "SchemaVersion" : "15.0.0.0"
},
17,
{ "IsNull" : false },
19,
{ "IsNull" : false },
21,
{ "IsNull" : false },
23,
{ "IsNull" : false },
25,
{ "IsNull" : false },
27,
{ "IsNull" : false },
29,
{ "IsNull" : false },
31,
{ "IsNull" : false },
37,

```

```

    { "IsNull" : false },
    40,
    { "IsNull" : false },
    44,
    { "IsNull" : false },
    48,
    { "IsNull" : false },
    50,
    { "IsNull" : false },
    51,
    { "_ObjectType_" : "SP.WorkManagement.OM.LocationOrientedUserOrderedSession" },
    53,
    { "IsNull" : false },
    54,
    {
      "_ObjectType_" : "SP.WorkManagement.OM.LocationGroupClientCollection"
      "_Child_Items_" : [ {
        "_ObjectType_" : "SP.WorkManagement.OM.Task"
        "CustomAttributes" : [ ],
        "Description" : null,
        "DueDate" : "/Date(2011,10,18,0,0,0,0)/",
        "EditUrl" : "EditTask.aspx?taskId=13",
        "Id" : 13,
        "IsCompleted" : false,
        "IsPersonal" : true,
        "LastModified" : "/Date(1321572834000)/",
        "LocationId" : -1,
        "Name" : "Remember the Milk",
        "PinAge" : 0,
        "SerializedCustomDataForClient" : null,
        "StartDate" : "/Date(1,0,1,0,0,0,0)/"
      },
      {
        "_ObjectType_" : "SP.WorkManagement.OM.Task"
        "CustomAttributes" : [ ],
        "Description" : null,
        "DueDate" : "/Date(2011,3,29,10,0,0,0)/",
        "EditUrl" : "http://office:80/project/TaskDetails.aspx?proj=dca8826e-6562-49b1-
a968-853400d76085&assn=f4a10d33-dd48-4d1e-8b17-3dd327e9e219",
        "Id" : 1,
        "IsCompleted" : false,
        "IsPersonal" : false,
        "LastModified" : "/Date(1321572850000)/",
        "LocationId" : 2,
        "Name" : "Get Groceries",
        "PinAge" : 0,
        "SerializedCustomDataForClient" :
        "{\isProjectServerTask\":true,\taskData\":{\pwaUrl\": \"http://office/project\",
        \assnUid\": \"f4a10d33-dd48-4d1e-8b17-3dd327e9e219\", \taskUid\": \"cfba49cb-
3548-468c-91c0-e6df5f63ab75\"}}",
        "StartDate" : "/Date(2011,3,11,1,0,0,0)/"
      },
      {
        "_ObjectType_" : "SP.WorkManagement.OM.Task"
        "CustomAttributes" : [ ],
        "Description" : null,
        "DueDate" : "/Date(2011,7,16,5,0,0,0)/",
        "EditUrl" : "http://office:80/project/TaskDetails.aspx?proj=a2178405-843c-447b-
91ee-8bdeef8d9498&assn=6ed66c3f-5e51-4a3c-a5b0-6e2c6bc7b3c2",

```

```

        "Id" : 2,
        "IsCompleted" : false,
        "IsPersonal" : false,
        "LastModified" : "/Date(1321572857000)/",
        "LocationId" : 4,
        "Name" : "Pay Rent",
        "PinAge" : 0,
        "SerializedCustomDataForClient" :
        "{ \"isProjectServerTask\":true, \"taskData\": { \"pwaUrl\": \"http://office/project\", \"
        \\\"assnUid\\\": \"6ed66c3f-5e51-4a3c-a5b0-6e2c6bc7b3c2\", \"taskUid\": \"42cad6a0-
        3bf7-44ae-b953-0acaad394a6f\" } }",
        "StartDate" : "/Date(2011,7,7,1,0,0,0)/"
    }
  ]
}
]

```

4.2 Updating a Task

In this example, the protocol client updates the title of a task (3) to "Remember the chocolate".

Request

```

<Request xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009"
SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0" ApplicationName="Javascript Library">
  <Actions>
    <ObjectPath Id="156" ObjectPathId="155" />
    <ObjectPath Id="158" ObjectPathId="157" />
    <Query Id="159" ObjectPathId="157">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="161" ObjectPathId="160" />
  </Actions>
  <ObjectPaths>
    <Constructor Id="155" TypeId="{d82117fb-e4aa-4ab8-b590-cb2be4b2f078}" />
    <Method Id="157" ParentId="155" Name="CreateLocationOrientedSession" />
    <Method Id="160" ParentId="157" Name="UpdateTaskWithLocalizedValue">
      <Parameters>
        <Parameter Type="Number">13</Parameter>
        <Parameter Type="Number">1</Parameter>
        <Parameter Type="String">Remember the Chocolate</Parameter>
      </Parameters>
    </Method>
  </ObjectPaths>
</Request>

```

Response

The protocol server (2) responds with the new position of the updated task (3) in the sort order of the list (1).

```

[ { "ErrorInfo" : null,
  "LibraryVersion" : "15.0.3510.3000",
  "SchemaVersion" : "15.0.0.0"

```

```

    },
    156,
    { "IsNull" : false },
    158,
    { "IsNull" : false },
    159,
    { "_ObjectType_" : "SP.WorkManagement.OM.LocationOrientedUserOrderedSession" },
    161,
    { "IsNull" : false }
]

```

4.3 Creating a New Task

In this example, the protocol client creates a new task (3) with the name "Go to concert".

Request

```

<Request xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009"
SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0" ApplicationName="Javascript Library">
  <Actions>
    <ObjectPath Id="1" ObjectPathId="0" />
    <ObjectPath Id="3" ObjectPathId="2" />
    <Query Id="4" ObjectPathId="2">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="6" ObjectPathId="5" />
    <Query Id="7" ObjectPathId="5">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="9" ObjectPathId="8" />
    <Query Id="10" ObjectPathId="8">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
  </Actions>
  <ObjectPaths>
    <Constructor Id="0" TypeId="{924b1779-998e-4c60-a291-78edebc3c202}" />
    <Method Id="2" ParentId="0" Name="CreateSession" />
    <Method Id="5" ParentId="2" Name="CreateTask">
      <Parameters>
        <Parameter Type="String">Go to concert</Parameter>
        <Parameter Type="String"></Parameter>
        <Parameter Type="String"></Parameter>
        <Parameter Type="String">11/23/2011</Parameter>
        <Parameter Type="Boolean">>false</Parameter>
        <Parameter Type="Boolean">>false</Parameter>
        <Parameter Type="String"></Parameter>
        <Parameter Type="Number">-1</Parameter>
      </Parameters>
    </Method>
    <Property Id="8" ParentId="5" Name="Result" />
  </ObjectPaths>

```

</Request>

Response

The protocol server responds with the metadata of the new task (3) and its position in the sort order of the list (1).

```
[ { "ErrorInfo" : null,
  "LibraryVersion" : "15.0.3510.3000",
  "SchemaVersion" : "15.0.0.0"
},
1,
{ "IsNull" : false },
3,
{ "IsNull" : false },
4,
{ "_ObjectType_" : "SP.WorkManagement.OM.SortableSession" },
6,
{ "IsNull" : false },
7,
{ "_ObjectType_" : "SP.WorkManagement.OM.TaskWriteResult"
  "Error" : 0,
  "ErrorMessage" : null
},
9,
{ "IsNull" : false },
10,
{ "_ObjectType_" : "SP.WorkManagement.OM.Task"
  "CustomAttributes" : [ ],
  "Description" : null,
  "DueDate" : "/Date(2011,10,23,0,0,0,0)/",
  "EditUrl" : "EditTask.aspx?taskId=15",
  "Id" : 15,
  "IsCompleted" : false,
  "IsPersonal" : true,
  "LastModified" : "/Date(1321573451000)/",
  "LocationId" : -1,
  "Name" : "Go to concert",
  "PinAge" : 0,
  "SerializedCustomDataForClient" : null,
  "StartDate" : "/Date(1,0,1,0,0,0,0)/"
}
]
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft SharePoint Server 2013

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

[<1> Section 3.1.5.44.2.1.3:](#) This method is only supported by Exchange 2013.

[<2> Section 3.1.5.44.2.1.4:](#) This method is only supported by Exchange 2013.

[<3> Section 3.1.5.44.2.2.6:](#) This method is only supported by Exchange 2013.

7 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

8 Index

A

Abstract data model
[server](#) 22
[Applicability](#) 20

C

[Capability negotiation](#) 20
[Change tracking](#) 114
[Client – message processing](#) 22
[Client – sequencing rules](#) 22
[Common Exceptions message](#) 21
[Creating a new task example](#) 110

D

Data model - abstract
[server](#) 22

E

Examples
[creating a new task](#) 110
[retrieving active tasks for a user](#) 106
[updating a task](#) 109

F

[Fields - vendor-extensible](#) 20

G

[Glossary](#) 18

H

Higher-layer triggered events
[server](#) 22

I

[Implementer - security considerations](#) 112
[Index of security parameters](#) 112
[Informative references](#) 19
Initialization
[server](#) 22
[Introduction](#) 18

M

[Message processing - client](#) 22
Messages
[Common Exceptions](#) 21
[transport](#) 21
Microsoft.SharePoint.WorkManagement.Client...
[BaseSession](#) 22
[BooleanCompareType](#) 28
[BooleanCriterion](#) 28

[CalloutInfo](#) 93
[CreateRefreshJobResult](#) 29
[CriterionConcatType](#) 30
[CustomAttributeFilter](#) 30
[DashboardScriptExtensionInfo](#) 31
[DashboardScriptExtensionInfoClientCollection](#) 95
[DateRangeCriterion](#) 32
[ExchangeOptInResult](#) 96
[ExchangeSyncResult](#) 97
[ExchangeUserSyncState](#) 98
[GetRefreshHistoryResponse](#) 33
[Location](#) 34
[LocationClientCollection](#) 36
[LocationDisplaySetting](#) 36
[LocationFilter](#) 37
[LocationGroupClientCollection](#) 38
[LocationOrientedSortableSession](#) 38
[LocationOrientedUserOrderedSession](#) 44
[LocationUpdateResult](#) 51
[LocationUpdateResultClientCollection](#) 52
[NameCriterion](#) 52
[NonTaskDataReadResult](#) 99
[OrderInfo](#) 53
[PersistedProperties](#) 100
[PinAge](#) 54
[PinnedState](#) 55
[PrivacyType](#) 93
[ProviderErrorInfo](#) 55
[ProviderErrorInfoClientCollection](#) 56
[ProviderRefreshStatus](#) 56
[ProviderRefreshStatusClientCollection](#) 58
[RefreshEventInfo](#) 58
[RefreshEventInfoClientCollection](#) 60
[RefreshHistory](#) 60
[RefreshState](#) 61
[SortableSession](#) 62
[SortableSessionManager](#) 67
[SortableTaskField](#) 68
[SortableTaskQuery](#) 69
[StringCompareType](#) 70
[Task](#) 71
[TaskClientCollection](#) 73
[TaskFilter](#) 74
[TaskQuery](#) 76
[TaskRefreshResult](#) 102
[TaskWriteResult](#) 77
[UserOrderedSession](#) 78
[UserOrderedSessionManager](#) 84
[UserSettings](#) 85
[UserSettingsManager](#) 87
[ViewSelectionInfo](#) 89
[WritableTaskField](#) 90
[WriteFieldErrorType](#) 91

N

[Normative references](#) 18

O

Other local events
[server](#) 105
[Overview \(synopsis\)](#) 19

P

[Parameters - security index](#) 112
[Preconditions](#) 19
[Prerequisites](#) 19
[Product behavior](#) 113

R

[References](#) 18
 [informative](#) 19
 [normative](#) 18
[Relationship to other protocols](#) 19
[Retrieving active tasks for a user example](#) 106

S

Security
 [implementer considerations](#) 112
 [parameter index](#) 112
[Sequencing rules - client](#) 22
Server
 [abstract data model](#) 22
 [higher-layer triggered events](#) 22
 [initialization](#) 22
 [other local events](#) 105
 [timer events](#) 105
 [timers](#) 22
[Standards assignments](#) 20

T

Timer events
 [server](#) 105
Timers
 [server](#) 22
[Tracking changes](#) 114
[Transport](#) 21
Triggered events - higher-layer
 [server](#) 22

U

[Updating a task example](#) 109

V

[Vendor-extensible fields](#) 20
[Versioning](#) 20