[MS-WMCSOM]:

Work Management Client-Side Object Model Protocol

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Table of Contents

1 Introduction 16
1.1 Glossary 16
1.2 References 17
1.2.1 Normative References 17
1.2.2 Informative References 17
1.3 Overview 18
1.4 Relationship to Other Protocols 18
1.5 Prerequisites/Preconditions 18
1.6 Applicability Statement 18
1.7 Versioning and Capability Negotiation 19
1.8 Vendor-Extensible Fields 19
1.9 Standards Assignments 19

2 Messages 20
2.1 Transport 20
2.2 Message Syntax 20
2.2.1 Common Exceptions 20

3 Protocol Details 21
3.1 Server Details 21
3.1.1 Abstract Data Model 21
3.1.2 Timers 21
3.1.3 Initialization 21
3.1.4 Higher-Layer Triggered Events 21
3.1.5 Message Processing Events and Sequencing Rules 21
3.1.5.1 Microsoft.SharePoint.WorkManagement.Client.BaseSession 21
3.1.5.1.1 Properties 21
3.1.5.1.1.1 Scalar Properties 21
3.1.5.1.1.2 ObjectPath Properties 21
3.1.5.1.2 Methods 21
3.1.5.1.2.1 Scalar Methods 22
3.1.5.1.2.1.1 BeginExchangeSync 22
3.1.5.1.2.1.2 IsExchangeJobPending 22
3.1.5.1.2.2 ObjectPath Methods 22
3.1.5.1.2.2.1 AddAttributeToTask 22
3.1.5.1.2.2.2 BeginCacheRefresh 22
3.1.5.1.2.2.3 CreateTask 22
3.1.5.1.2.2.4 DeleteTask 23
3.1.5.1.2.2.5 GetRefreshHistory 23
3.1.5.1.2.2.6 GetRefreshStatus 23
3.1.5.1.2.2.7 PinTask 24
3.1.5.1.2.2.8 RemoveAttributeFromTask 24
3.1.5.1.2.2.9 RemovePinOnTask 24
3.1.5.1.2.2.10 UpdateTaskWithLocalizedValue 24
3.1.5.1.2.2.11 GetCalloutInfo 25
3.1.5.1.2.2.12 ReadAllNonTaskData 25
3.1.5.1.2.2.13 RefreshSingleTask 25
3.1.5.1.2.2.14 GetRefreshHealthInfo 25
3.1.5.1.2.2.15 CreatePersonalTaskAndPromoteToProviderTask 25
3.1.5.1.2.2.16 PromotePersonalTaskToProviderTaskInLocation 26
3.1.5.2 Microsoft.SharePoint.WorkManagement.Client.BooleanCompareType 26
3.1.5.2.1 Field Values 26
3.1.5.2.1.1 NoValue 26
3.1.5.2.1.2 IsTrue 27
3.1.5.2.1.3 IsFalse 27

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3.1.5.3 Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion 27
3.1.5.3.1 Properties 27
3.1.5.3.1.1 Scalar Properties 27
3.1.5.3.1.1.1 CompareType 27
3.1.5.3.1.2 ObjectPath Properties 27
3.1.5.3.2 Methods 27
3.1.5.3.2.1 Scalar Methods 27
3.1.5.3.2.2 ObjectPath Methods 27
3.1.5.3.2.2.1 CSOM Constructor 27
3.1.5.4 Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult 27
3.1.5.4.1 Properties 28
3.1.5.4.1.1 Scalar Properties 28
3.1.5.4.1.1.1 CreatedJob 28
3.1.5.4.1.1.2 CurrentJobId 28
3.1.5.4.1.1.3 EncounteredError 28
3.1.5.4.1.2 ObjectPath Properties 28
3.1.5.4.2 Methods 28
3.1.5.4.2.1 Scalar Methods 28
3.1.5.4.2.2 ObjectPath Methods 28
3.1.5.5 Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType 28
3.1.5.5.1 Field Values 28
3.1.5.5.1.1 NoValue 28
3.1.5.5.1.2 All 29
3.1.5.5.1.3 Any 29
3.1.5.6 Microsoft.SharePoint.WorkManagement.Client.CustomAttributeFilter 29
3.1.5.6.1 Properties 29
3.1.5.6.1.1 Scalar Properties 29
3.1.5.6.1.1.1 Attributes 29
3.1.5.6.1.1.2 ConcatType 29
3.1.5.6.1.2 ObjectPath Properties 29
3.1.5.6.2 Methods 29
3.1.5.6.2.1 Scalar Methods 29
3.1.5.6.2.2 ObjectPath Methods 29
3.1.5.6.2.2.1 CSOM Constructor 29
3.1.5.7 Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfo 30
3.1.5.7.1 Properties 30
3.1.5.7.1.1 Scalar Properties 30
3.1.5.7.1.1.1 ProviderKey 30
3.1.5.7.1.1.2 ScriptClass 30
3.1.5.7.1.1.3 ScriptData 30
3.1.5.7.1.1.4 ScriptFiles 30
3.1.5.7.1.2 ObjectPath Properties 30
3.1.5.7.2 Methods 30
3.1.5.7.2.1 Scalar Methods 30
3.1.5.7.2.2 ObjectPath Methods 30
3.1.5.8 Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion 31
3.1.5.8.1 Properties 31
3.1.5.8.1.1 Scalar Properties 31
3.1.5.8.1.1.1 RangeEndValue 31
3.1.5.8.1.1.2 RangeStartValue 31
3.1.5.8.1.2 ObjectPath Properties 31
3.1.5.8.2 Methods 31
3.1.5.8.2.1 Scalar Methods 31
3.1.5.8.2.2 ObjectPath Methods 31
3.1.5.8.2.2.1 CSOM Constructor 31
3.1.5.9 Microsoft.SharePoint.WorkManagement.Client.RefreshHealthInfo 31
3.1.5.9.1 Properties 31
3.1.5.9.1.1 Scalar Properties 32

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3.1.5.9.1.1.1 LatestRefreshTime 32
3.1.5.9.1.1.2 Succeeded 32
3.1.5.9.1.1.3 NewTasks 32
3.1.5.9.1.2 ObjectPath Properties 32
3.1.5.9.1.2.1 ProviderErrors 32
3.1.5.9.2 Methods 32
3.1.5.9.2.1 Scalar Methods 32
3.1.5.9.2.2 ObjectPath Methods 32
3.1.5.10 Microsoft.SharePoint.WorkManagement.Client.Location 32
3.1.5.10.1 Properties 32
3.1.5.10.1.1 Scalar Properties 32
3.1.5.10.1.1.1 Color 33
3.1.5.10.1.1.2 Id 33
3.1.5.10.1.1.3 Name 33
3.1.5.10.1.1.4 ParentId 33
3.1.5.10.1.1.5 RootProviderKey 33
3.1.5.10.1.1.6 Url 33
3.1.5.10.1.1.7 Important 33
3.1.5.10.1.2 ObjectPath Properties 33
3.1.5.10.2 Methods 34
3.1.5.10.2.1 Scalar Methods 34
3.1.5.10.2.2 ObjectPath Methods 34
3.1.5.10.2.2.1 CSOM Constructor 34
3.1.5.11 Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection 34
3.1.5.11.1 Properties 34
3.1.5.11.1.1 Scalar Properties 34
3.1.5.11.1.2 ObjectPath Properties 34
3.1.5.11.2 Methods 34
3.1.5.11.2.1 Scalar Methods 34
3.1.5.11.2.2 ObjectPath Methods 34
3.1.5.12 Microsoft.SharePoint.WorkManagement.Client.LocationDisplaySetting 34
3.1.5.12.1 Properties 34
3.1.5.12.1.1 Scalar Properties 34
3.1.5.12.1.1.1 Color 34
3.1.5.12.1.1.2 Id 35
3.1.5.12.1.2 ObjectPath Properties 35
3.1.5.12.2 Methods 35
3.1.5.12.2.1 Scalar Methods 35
3.1.5.12.2.2 ObjectPath Methods 35
3.1.5.13 Microsoft.SharePoint.WorkManagement.Client.LocationFilter 35
3.1.5.13.1 Properties 35
3.1.5.13.1.1 Scalar Properties 35
3.1.5.13.1.1.1 LocationKeys 35
3.1.5.13.1.1.2 IncludeUncategorizedTasks 35
3.1.5.13.1.2 ObjectPath Properties 35
3.1.5.13.2 Methods 36
3.1.5.13.2.1 Scalar Methods 36
3.1.5.13.2.2 ObjectPath Methods 36
3.1.5.13.2.2.1 CSOM Constructor 36
3.1.5.14 Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection 36
3.1.5.14.1 Properties 36
3.1.5.14.1.1 Scalar Properties 36
3.1.5.14.1.2 ObjectPath Properties 36
3.1.5.14.2 Methods 36
3.1.5.14.2.1 Scalar Methods 36
3.1.5.14.2.2 ObjectPath Methods 36
3.1.5.14.2.2.1 CSOM Constructor 36

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3.1.5.15 Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession 36
3.1.5.15.1 Properties 37
3.1.5.15.1.1 Scalar Properties 37
3.1.5.15.1.2 ObjectPath Properties 37
3.1.5.15.2 Methods 37
3.1.5.15.2.1 Scalar Methods 37
3.1.5.15.2.1.1 MovePersonalTaskToLocation 37
3.1.5.15.2.1.2 BeginExchangeSync 37
3.1.5.15.2.1.3 IsExchangeJobPending 37
3.1.5.15.2.2 ObjectPath Methods 37
3.1.5.15.2.2.1 AddAttributeToTask 37
3.1.5.15.2.2.2 BeginCacheRefresh 38
3.1.5.15.2.2.3 CreateTask 38
3.1.5.15.2.2.4 DeleteTask 38
3.1.5.15.2.2.5 GetRefreshHistory 39
3.1.5.15.2.2.6 GetRefreshStatus 39
3.1.5.15.2.2.7 PinTask 39
3.1.5.15.2.2.8 ReadTasks 39
3.1.5.15.2.2.9 RemoveAttributeFromTask 39
3.1.5.15.2.2.10 RemovePinOnTask 40
3.1.5.15.2.2.11 UpdateTaskWithLocalizedValue 40
3.1.5.15.2.2.12 GetCalloutInfo 40
3.1.5.15.2.2.13 ReadAllNonTaskData 40
3.1.5.15.2.2.14 RefreshSingleTask 40
3.1.5.15.2.2.15 GetRefreshHealthInfo 41
3.1.5.15.2.2.16 CreatePersonalTaskAndPromoteToProviderTask 41
3.1.5.15.2.2.17 PromotePersonalTaskToProviderTaskInLocation 42
3.1.5.16 Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession 42
3.1.5.16.1 Properties 42
3.1.5.16.1.1 Scalar Properties 42
3.1.5.16.1.2 ObjectPath Properties 42
3.1.5.16.2 Methods 42
3.1.5.16.2.1 Scalar Methods 42
3.1.5.16.2.1.1 MovePersonalTaskToLocation 42
3.1.5.16.2.1.2 ReorderTask 43
3.1.5.16.2.1.3 BeginExchangeSync 43
3.1.5.16.2.1.4 IsExchangeJobPending 43
3.1.5.16.2.2 ObjectPath Methods 43
3.1.5.16.2.2.1 AddAttributeToTask 43
3.1.5.16.2.2.2 BeginCacheRefresh 43
3.1.5.16.2.2.3 CreateTask 44
3.1.5.16.2.2.4 DeleteTask 44
3.1.5.16.2.2.5 GetRefreshHistory 44
3.1.5.16.2.2.6 GetRefreshStatus 45
3.1.5.16.2.2.7 PinTask 45
3.1.5.16.2.2.8 ReadTasks 45
3.1.5.16.2.2.9 RemoveAttributeFromTask 45
3.1.5.16.2.2.10 RemovePinOnTask 46
3.1.5.16.2.2.11 UpdateTaskWithLocalizedValue 46
3.1.5.16.2.2.12 GetCalloutInfo 46
3.1.5.16.2.2.13 ReadAllNonTaskData 46
3.1.5.16.2.2.14 RefreshSingleTask 46
3.1.5.16.2.2.15 GetRefreshHealthInfo 47
3.1.5.16.2.2.16 CreatePersonalTaskAndPromoteToProviderTask 47
3.1.5.16.2.2.17 PromotePersonalTaskToProviderTaskInLocation 47

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3.1.5.17 Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResult 48
3.1.5.17.1 Properties 48
3.1.5.17.1.1 Scalar Properties 48
3.1.5.17.1.1.1 ActiveAddedCount 48
3.1.5.17.1.1.2 AddedCount 48
3.1.5.17.1.1.3 RemovedCount 48
3.1.5.17.1.1.4 RootLocationId 48
3.1.5.17.1.1.5 UpdatedCount 48
3.1.5.17.1.2 ObjectPath Properties 49
3.1.5.17.2 Methods 49
3.1.5.17.2.1 Scalar Methods 49
3.1.5.17.2.2 ObjectPath Methods 49
3.1.5.18 Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResultClientCollection 49
3.1.5.18.1 Properties 49
3.1.5.18.1.1 Scalar Properties 49
3.1.5.18.1.2 ObjectPath Properties 49
3.1.5.18.2 Methods 49
3.1.5.18.2.1 Scalar Methods 49
3.1.5.18.2.2 ObjectPath Methods 49
3.1.5.19 Microsoft.SharePoint.WorkManagement.Client.NameCriterion 49
3.1.5.19.1 Properties 50
3.1.5.19.1.1 Scalar Properties 50
3.1.5.19.1.1.1 CompareType 50
3.1.5.19.1.1.2 CompareValue 50
3.1.5.19.1.2 ObjectPath Properties 50
3.1.5.19.2 Methods 50
3.1.5.19.2.1 Scalar Methods 50
3.1.5.19.2.2 ObjectPath Methods 50
3.1.5.19.2.2.1 CSOM Constructor 50
3.1.5.20 Microsoft.SharePoint.WorkManagement.Client.OrderInfo 50
3.1.5.20.1 Properties 50
3.1.5.20.1.1 Scalar Properties 50
3.1.5.20.1.1.1 Field 50
3.1.5.20.1.1.2 IsDescending 51
3.1.5.20.1.2 ObjectPath Properties 51
3.1.5.20.2 Methods 51
3.1.5.20.2.1 Scalar Methods 51
3.1.5.20.2.2 ObjectPath Methods 51
3.1.5.20.2.2.1 CSOM Constructor 51
3.1.5.21 Microsoft.SharePoint.WorkManagement.Client.PinAge 51
3.1.5.21.1 Field Values 51
3.1.5.21.1.1 NoValue 51
3.1.5.21.1.2 Fresh 51
3.1.5.21.1.3 Stale 51
3.1.5.22 Microsoft.SharePoint.WorkManagement.Client.PinnedState 51
3.1.5.22.1 Field Values 52
3.1.5.22.1.1 NoValue 52
3.1.5.22.1.2 Pinned 52
3.1.5.22.1.3 NotPinned 52
3.1.5.23 Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfo 52
3.1.5.23.1 Properties 52
3.1.5.23.1.1 Scalar Properties 52
3.1.5.23.1.1.1 CorrelationId 52
3.1.5.23.1.1.2 LastSuccessfulRefresh 52
3.1.5.23.1.1.3 LocalizedName 52
3.1.5.23.1.2 ObjectPath Properties 53

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3.1.5.23.2 Methods 53
3.1.5.23.2.1 Scalar Methods 53
3.1.5.23.2.2 ObjectPath Methods 53
3.1.5.24 Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfoClientCollection 53
3.1.5.24.1 Properties 53
3.1.5.24.1.1 Scalar Properties 53
3.1.5.24.1.2 ObjectPath Properties 53
3.1.5.24.2 Methods 53
3.1.5.24.2.1 Scalar Methods 53
3.1.5.24.2.2 ObjectPath Methods 53
3.1.5.25 Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatus 53
3.1.5.25.1 Properties 53
3.1.5.25.1.1 Scalar Properties 53
3.1.5.25.1.1.1 ProviderKey 53
3.1.5.25.1.1.2 ProviderLocalizedName 54
3.1.5.25.1.1.3 RefreshFinished 54
3.1.5.25.1.1.4 RefreshStarted 54
3.1.5.25.1.1.5 RootLocationId 54
3.1.5.25.1.2 ObjectPath Properties 54
3.1.5.25.2 Methods 54
3.1.5.25.2.1 Scalar Methods 54
3.1.5.25.2.2 ObjectPath Methods 54
3.1.5.26 Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatusClientCollection 54
3.1.5.26.1 Properties 55
3.1.5.26.1.1 Scalar Properties 55
3.1.5.26.1.2 ObjectPath Properties 55
3.1.5.26.2 Methods 55
3.1.5.26.2.1 Scalar Methods 55
3.1.5.26.2.2 ObjectPath Methods 55
3.1.5.27 Microsoft.SharePoint.WorkManagement.Client.RefreshResult 55
3.1.5.27.1 Properties 55
3.1.5.27.1.1 Scalar Properties 55
3.1.5.27.1.1.1 AggregatorRefreshState 55
3.1.5.27.1.1.2 CorrelationId 55
3.1.5.27.1.1.3 RefreshFinished 55
3.1.5.27.1.1.4 RefreshId 56
3.1.5.27.1.2 ObjectPath Properties 56
3.1.5.27.1.2.1 TaskChangesByLocation 56
3.1.5.27.1.2.2 ProviderStatuses 56
3.1.5.27.2 Methods 56
3.1.5.27.2.1 Scalar Methods 56
3.1.5.27.2.2 ObjectPath Methods 56
3.1.5.28 Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfoClientCollection 56
3.1.5.28.1 Properties 56
3.1.5.28.1.1 Scalar Properties 56
3.1.5.28.1.2 ObjectPath Properties 56
3.1.5.28.2 Methods 56
3.1.5.28.2.1 Scalar Methods 56
3.1.5.28.2.2 ObjectPath Methods 57
3.1.5.29 Microsoft.SharePoint.WorkManagement.Client.RefreshHistory 57
3.1.5.29.1 Properties 57
3.1.5.29.1.1 Scalar Properties 57
3.1.5.29.1.2 ObjectPath Properties 57
3.1.5.29.1.2.1 Refreshes 57

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3.1.5.29.2 Methods 57
3.1.5.29.2.1 Scalar Methods 57
3.1.5.29.2.2 ObjectPath Methods 57
3.1.5.30 Microsoft.SharePoint.WorkManagement.Client.RefreshState 57
3.1.5.30.1 Field Values 57
3.1.5.30.1.1 NoValue 57
3.1.5.30.1.2 Pending 58
3.1.5.30.1.3 Ignored 58
3.1.5.30.1.4 Succeeded 58
3.1.5.30.1.5 Failed 58
3.1.5.31 Microsoft.SharePoint.WorkManagement.Client.SortableSession 58
3.1.5.31.1 Properties 58
3.1.5.31.1.1 Scalar Properties 58
3.1.5.31.1.2 ObjectPath Properties 58
3.1.5.31.2 Methods 58
3.1.5.31.2.1 Scalar Methods 58
3.1.5.31.2.1.1 BeginExchangeSync 58
3.1.5.31.2.1.2 IsExchangeJobPending 58
3.1.5.31.2.2 ObjectPath Methods 59
3.1.5.31.2.2.1 AddAttributeToTask 59
3.1.5.31.2.2.2 BeginCacheRefresh 59
3.1.5.31.2.2.3 CreateTask 59
3.1.5.31.2.2.4 DeleteTask 60
3.1.5.31.2.2.5 GetRefreshHistory 60
3.1.5.31.2.2.6 GetRefreshStatus 60
3.1.5.31.2.2.7 PinTask 60
3.1.5.31.2.2.8 ReadTasks 60
3.1.5.31.2.2.9 RemoveAttributeFromTask 61
3.1.5.31.2.2.10 RemovePinOnTask 61
3.1.5.31.2.2.11 UpdateTaskWithLocalizedValue 61
3.1.5.31.2.2.12 GetCalloutInfo 61
3.1.5.31.2.2.13 ReadAllNonTaskData 62
3.1.5.31.2.2.14 RefreshSingleTask 62
3.1.5.31.2.2.15 GetRefreshHealthInfo 62
3.1.5.31.2.2.16 CreatePersonalTaskAndPromoteToProviderTask 62
3.1.5.31.2.2.17 PromotePersonalTaskToProviderTaskInLocation 63
3.1.5.32 Microsoft.SharePoint.WorkManagement.Client.SortableSessionManager 63
3.1.5.32.1 Properties 63
3.1.5.32.1.1 Scalar Properties 63
3.1.5.32.1.2 ObjectPath Properties 63
3.1.5.32.2 Methods 63
3.1.5.32.2.1 Scalar Methods 63
3.1.5.32.2.2 ObjectPath Methods 64
3.1.5.32.2.2.1 CreateLocationOrientedSession 64
3.1.5.32.2.2.2 CreateSession 64
3.1.5.32.2.2.3 CSOM Constructor 64
3.1.5.33 Microsoft.SharePoint.WorkManagement.Client.SortableTaskField 64
3.1.5.33.1 Field Values 64
3.1.5.33.1.1 NoValue 64
3.1.5.33.1.2 IsCompleted 64
3.1.5.33.1.3 Id 64
3.1.5.33.1.4 DueDate 64
3.1.5.33.1.5 Description 65
3.1.5.33.1.6 PinAge 65
3.1.5.33.1.7 Location 65
3.1.5.33.1.8 LastModified 65
3.1.5.33.1.9 DiscoveredDate 65
3.1.5.33.1.10 Title 65

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3.1.5.34 Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery 65
3.1.5.34.1 Properties 65
3.1.5.34.1.1 Scalar Properties 65
3.1.5.34.1.2 ObjectPath Properties 65
3.1.5.34.1.2.1 CoreQuery 65
3.1.5.34.1.2.2 Order 66
3.1.5.34.2 Methods 66
3.1.5.34.2.1 Scalar Methods 66
3.1.5.34.2.2 ObjectPath Methods 66
3.1.5.34.2.2.1 CSOM Constructor 66
3.1.5.35 Microsoft.SharePoint.WorkManagement.Client.StringCompareType 66
3.1.5.35.1 Field Values 66
3.1.5.35.1.1 NoValue 66
3.1.5.35.1.2 Equals 66
3.1.5.35.1.3 Contains 66
3.1.5.35.1.4 BeginsWith 66
3.1.5.36 Microsoft.SharePoint.WorkManagement.Client.Task 67
3.1.5.36.1 Properties 67
3.1.5.36.1.1 Scalar Properties 67
3.1.5.36.1.1.1 CustomAttributes 67
3.1.5.36.1.1.2 Description 67
3.1.5.36.1.1.3 DueDate 67
3.1.5.36.1.1.4 EditUrl 67
3.1.5.36.1.1.5 Id 67
3.1.5.36.1.1.6 IsCompleted 67
3.1.5.36.1.1.7 IsPersonal 68
3.1.5.36.1.1.8 LastModified 68
3.1.5.36.1.1.9 Name 68
3.1.5.36.1.1.10 PinAge 68
3.1.5.36.1.1.11 SerializedCustomDataForClient 68
3.1.5.36.1.1.12 StartDate 68
3.1.5.36.1.1.13 LocationId 68
3.1.5.36.1.1.14 IsReadOnly 68
3.1.5.36.1.2 ObjectPath Properties 69
3.1.5.36.2 Methods 69
3.1.5.36.2.1 Scalar Methods 69
3.1.5.36.2.2 ObjectPath Methods 69
3.1.5.36.2.2.1 CSOM Constructor 69
3.1.5.37 Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection 69
3.1.5.37.1 Properties 69
3.1.5.37.1.1 Scalar Properties 69
3.1.5.37.1.2 ObjectPath Properties 69
3.1.5.37.2 Methods 69
3.1.5.37.2.1 Scalar Methods 69
3.1.5.37.2.2 ObjectPath Methods 69
3.1.5.37.2.2.1 CSOM Constructor 69
3.1.5.38 Microsoft.SharePoint.WorkManagement.Client.TaskFilter 69
3.1.5.38.1 Properties 70
3.1.5.38.1.1 Scalar Properties 70
3.1.5.38.1.1.1 CriterionConcatType 70
3.1.5.38.1.1.2 IdsToFilterBy 70
3.1.5.38.1.2 ObjectPath Properties 70
3.1.5.38.1.2.1 CompletedCriterion 70
3.1.5.38.1.2.2 DueDateRangeCriterion 70
3.1.5.38.1.2.3 IsNewCriterion 70
3.1.5.38.1.2.4 NameCriterion 70
3.1.5.38.1.2.5 StartDateRangeCriterion 70
3.1.5.38.2 Methods 71

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3.1.5.38.2.1 Scalar Methods 71
3.1.5.38.2.2 ObjectPath Methods 71
3.1.5.38.2.2.1 CSOM Constructor 71
3.1.5.39 Microsoft.SharePoint.WorkManagement.Client.TaskQuery 71
3.1.5.39.1 Properties 71
3.1.5.39.1.1 Scalar Properties 71
3.1.5.39.1.1.1 KeywordFilter 71
3.1.5.39.1.1.2 LastQueryTime 71
3.1.5.39.1.1.3 PinnedFilter 71
3.1.5.39.1.2 ObjectPath Properties 71
3.1.5.39.1.2.1 CustomAttributeFilter 72
3.1.5.39.1.2.2 FieldFilter 72
3.1.5.39.1.2.3 LastModifiedDateRangeFilter 72
3.1.5.39.1.2.4 LocationFilter 72
3.1.5.39.2 Methods 72
3.1.5.39.2.1 Scalar Methods 72
3.1.5.39.2.2 ObjectPath Methods 72
3.1.5.39.2.2.1 CSOM Constructor 72
3.1.5.40 Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult 72
3.1.5.40.1 Properties 72
3.1.5.40.1.1 Scalar Properties 72
3.1.5.40.1.1.1 Error 73
3.1.5.40.1.1.2 ErrorMessage 73
3.1.5.40.1.2 ObjectPath Properties 73
3.1.5.40.1.2.1 Result 73
3.1.5.40.2 Methods 73
3.1.5.40.2.1 Scalar Methods 73
3.1.5.40.2.2 ObjectPath Methods 73
3.1.5.41 Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession 73
3.1.5.41.1 Properties 73
3.1.5.41.1.1 Scalar Properties 73
3.1.5.41.1.2 ObjectPath Properties 73
3.1.5.41.2 Methods 73
3.1.5.41.2.1 Scalar Methods 73
3.1.5.41.2.1.1 ReorderTask 74
3.1.5.41.2.1.2 BeginExchangeSync 74
3.1.5.41.2.1.3 IsExchangeJobPending 74
3.1.5.41.2.2 ObjectPath Methods 74
3.1.5.41.2.2.1 AddAttributeToTask 74
3.1.5.41.2.2.2 BeginCacheRefresh 74
3.1.5.41.2.2.3 CreateTask 75
3.1.5.41.2.2.4 DeleteTask 75
3.1.5.41.2.2.5 GetRefreshHistory 75
3.1.5.41.2.2.6 GetRefreshStatus 76
3.1.5.41.2.2.7 PinTask 76
3.1.5.41.2.2.8 ReadTasks 76
3.1.5.41.2.2.9 RemoveAttributeFromTask 76
3.1.5.41.2.2.10 RemovePinOnTask 76
3.1.5.41.2.2.11 UpdateTaskWithLocalizedValue 77
3.1.5.41.2.2.12 GetCalloutInfo 77
3.1.5.41.2.2.13 ReadAllNonTaskData 77
3.1.5.41.2.2.14 RefreshSingleTask 77
3.1.5.41.2.2.15 GetRefreshHealthInfo 77
3.1.5.41.2.2.16 CreatePersonalTaskAndPromoteToProviderTask 78
3.1.5.41.2.2.17 PromotePersonalTaskToProviderTaskInLocation 78
3.1.5.42 Microsoft.SharePoint.WorkManagement.Client.UserOrderedSessionManager . 79
3.1.5.42.1 Properties 79
3.1.5.42.1.1 Scalar Properties 79

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3.1.5.42.1.2 ObjectPath Properties 79
3.1.5.42.2 Methods 79
3.1.5.42.2.1 Scalar Methods 79
3.1.5.42.2.2 ObjectPath Methods 79
3.1.5.42.2.2.1 CreateLocationOrientedSession 79
3.1.5.42.2.2.2 CreateSession 79
3.1.5.42.2.2.3 CSOM Constructor 79
3.1.5.43 Microsoft.SharePoint.WorkManagement.Client.UserSettings 80
3.1.5.43.1 Properties 80
3.1.5.43.1.1 Scalar Properties 80
3.1.5.43.1.1.1 DaysAfterCurrentDateTimelineEnds 80
3.1.5.43.1.1.2 DaysATaskIsConsideredNewTask 80
3.1.5.43.1.1.3 DaysBeforeCurrentDateTimelineStarts 80
3.1.5.43.1.1.4 ImportantTasksLimit 80
3.1.5.43.1.1.5 InactiveMonthsBeforeLocationExpiration 80
3.1.5.43.1.1.6 LateTasksLimit 80
3.1.5.43.1.1.7 OldTasksLimit 81
3.1.5.43.1.1.8 UpcomingTasksLimit 81
3.1.5.43.1.1.9 ImportantLocationIds 81
3.1.5.43.1.2 ObjectPath Properties 81
3.1.5.43.2 Methods 81
3.1.5.43.2.1 Scalar Methods 81
3.1.5.43.2.2 ObjectPath Methods 81
3.1.5.43.2.2.1 CSOM Constructor 81
3.1.5.44 Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager 81
3.1.5.44.1 Properties 81
3.1.5.44.1.1 Scalar Properties 81
3.1.5.44.1.2 ObjectPath Properties 81
3.1.5.44.2 Methods 82
3.1.5.44.2.1 Scalar Methods 82
3.1.5.44.2.1.1 SetUserSettings 82
3.1.5.44.2.1.2 IsExchangeJobPending 82
3.1.5.44.2.1.3 OptIntoExchangeSync 82
3.1.5.44.2.1.4 OptOutOfExchangeSync 82
3.1.5.44.2.1.5 SetPersistedProperties 82
3.1.5.44.2.2 ObjectPath Methods 82
3.1.5.44.2.2.1 GetAllLocations 83
3.1.5.44.2.2.2 GetImportantLocations 83
3.1.5.44.2.2.3 GetUserSettings 83
3.1.5.44.2.2.4 GetLocations 83
3.1.5.44.2.2.5 CSOM Constructor 83
3.1.5.44.2.2.6 GetExchangeSyncInfo 83
3.1.5.44.2.2.7 GetPersistedProperties 83
3.1.5.45 Microsoft.SharePoint.WorkManagement.Client.ViewSelectionInfo 84
3.1.5.45.1 Properties 84
3.1.5.45.1.1 Scalar Properties 84
3.1.5.45.1.1.1 Id 84
3.1.5.45.1.1.2 Image 84
3.1.5.45.1.1.3 Name 84
3.1.5.45.1.2 ObjectPath Properties 84
3.1.5.45.2 Methods 84
3.1.5.45.2.1 Scalar Methods 84
3.1.5.45.2.2 ObjectPath Methods 84
3.1.5.45.2.2.1 CSOM Constructor 84
3.1.5.46 Microsoft.SharePoint.WorkManagement.Client.WritableTaskField 84
3.1.5.46.1 Field Values 85
3.1.5.46.1.1 NoValue 85
3.1.5.46.1.2 IsCompleted 85

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3.1.5.46.1.3 DueDate 85
3.1.5.46.1.4 Description 85
3.1.5.46.1.5 Title 85
3.1.5.46.1.6 EditUrl 85
3.1.5.46.1.7 StartDate 85
3.1.5.47 Microsoft.SharePoint.WorkManagement.Client.WriteFieldErrorType 85
3.1.5.47.1 Field Values 85
3.1.5.47.1.1 NoValue 86
3.1.5.47.1.2 TaskNotFound 86
3.1.5.47.1.3 InvalidInput 86
3.1.5.47.1.4 TaskDeleted 86
3.1.5.47.1.5 FieldConflict 86
3.1.5.47.1.6 Validation 86
3.1.5.47.1.7 LocationInvalid 86
3.1.5.47.1.8 Unknown 86
3.1.5.47.1.9 DueDateInvalid 86
3.1.5.47.1.10 StartDateInvalid 86
3.1.5.47.1.11 DescriptionInvalid 87
3.1.5.47.1.12 IsCompletedInvalid 87
3.1.5.47.1.13 TitleInvalid 87
3.1.5.47.1.14 EditUrlInvalid 87
3.1.5.47.1.15 AccessDenied 87
3.1.5.47.1.16 PromoteTargetTaskNotPersonal 87
3.1.5.47.1.17 PromotionFailedInProvider 87
3.1.5.48 Microsoft.SharePoint.WorkManagement.Client.PrivacyType 87
3.1.5.48.1 Field Values 87
3.1.5.48.1.1 None 87
3.1.5.48.1.2 Personal 87
3.1.5.48.1.3 Public 88
3.1.5.49 Microsoft.SharePoint.WorkManagement.Client.CalloutInfo 88
3.1.5.49.1 Properties 88
3.1.5.49.1.1 Scalar Properties 88
3.1.5.49.1.1.1 Contacts 88
3.1.5.49.1.1.2 DirectLinkTitle 88
3.1.5.49.1.1.3 DirectLinkUrl 88
3.1.5.49.1.1.4 Hierarchy 88
3.1.5.49.1.1.5 Predecessors 88
3.1.5.49.1.1.6 Successors 89
3.1.5.49.1.1.7 Title 89
3.1.5.49.1.1.8 Url 89
3.1.5.49.1.2 ObjectPath Properties 89
3.1.5.49.2 Methods 89
3.1.5.49.2.1 Scalar Methods 89
3.1.5.49.2.2 ObjectPath Methods 89
3.1.5.50 Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfoClientCollection 89
3.1.5.50.1 Properties 89
3.1.5.50.1.1 Scalar Properties 89
3.1.5.50.1.2 ObjectPath Properties 89
3.1.5.50.2 Methods 90
3.1.5.50.2.1 Scalar Methods 90
3.1.5.50.2.2 ObjectPath Methods 90
3.1.5.51 Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult 90
3.1.5.51.1 Field Values 90
3.1.5.51.1.1 NoValue 90
3.1.5.51.1.2 Success 90
3.1.5.51.1.3 UnknownError 90

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3.1.5.51.1.4 CouldNotConnectToExchange 90
3.1.5.51.1.5 CouldNotFindOrCreateMySite 90
3.1.5.51.1.6 UserAlreadyOptedIn 90
3.1.5.51.1.7 UserExchangeOperationPending 91
3.1.5.51.1.8 UnsupportedExchangeVersion 91
3.1.5.51.1.9 MissingEmailAddress 91
3.1.5.51.1.10 ExchangeWebServiceClientMissing 91
3.1.5.51.1.11 UnsupportedSharePointConfiguration 91
3.1.5.51.1.12 InvalidOrUnauthorizedUser 91
3.1.5.51.1.13 CouldNotActivateExchangeSyncFeatureOnSiteSubscription 91
3.1.5.52 Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult 91
3.1.5.52.1 Field Values 91
3.1.5.52.1.1 NoValue 91
3.1.5.52.1.2 Success 92
3.1.5.52.1.3 UnknownError 92
3.1.5.52.1.4 CouldNotConnectToExchange 92
3.1.5.52.1.5 CouldNotGetUserCredentials 92
3.1.5.52.1.6 CouldNotKickoffJob 92
3.1.5.52.1.7 SyncWithErrors 92
3.1.5.53 Microsoft.SharePoint.WorkManagement.Client.ExchangeUserSyncState 92
3.1.5.53.1 Properties 92
3.1.5.53.1.1 Scalar Properties 92
3.1.5.53.1.1.1 IsOptedIn 92
3.1.5.53.1.1.2 LastEndTime 92
3.1.5.53.1.1.3 LastSyncResult 93
3.1.5.53.1.2 ObjectPath Properties 93
3.1.5.53.2 Methods 93
3.1.5.53.2.1 Scalar Methods 93
3.1.5.53.2.2 ObjectPath Methods 93
3.1.5.54 Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult 93
3.1.5.54.1 Properties 93
3.1.5.54.1.1 Scalar Properties 93
3.1.5.54.1.2 ObjectPath Properties 93
3.1.5.54.1.2.1 AllLocatons 93
3.1.5.54.1.2.2 PersistedProperties 93
3.1.5.54.1.2.3 RefreshHistory 94
3.1.5.54.1.2.4 ScriptExtensions 94
3.1.5.54.1.2.5 UserSettings 94
3.1.5.54.2 Methods 94
3.1.5.54.2.1 Scalar Methods 94
3.1.5.54.2.2 ObjectPath Methods 94
3.1.5.55 Microsoft.SharePoint.WorkManagement.Client.PersistedProperties 94
3.1.5.55.1 Properties 94
3.1.5.55.1.1 Scalar Properties 94
3.1.5.55.1.1.1 FilteredLocationIds 94
3.1.5.55.1.1.2 GroupByProjects 94
3.1.5.55.1.1.3 HasShownMarkAsImportantCallout 95
3.1.5.55.1.1.4 HasShownTaskListTooLongNotification 95
3.1.5.55.1.1.5 QuickLaunchLandingPage 95
3.1.5.55.1.2 ObjectPath Properties 95
3.1.5.55.2 Methods 95
3.1.5.55.2.1 Scalar Methods 95
3.1.5.55.2.2 ObjectPath Methods 95
3.1.5.55.2.2.1 CSOM Constructor 95
3.1.5.56 Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult 95
3.1.5.56.1 Properties 95
3.1.5.56.1.1 Scalar Properties 95
3.1.5.56.1.1.1 ErrorCorrelationId 96

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3.1.5.56.1.1.2 RefreshState ... 96
3.1.5.56.1.2 ObjectPath Properties ... 96
3.1.5.56.1.2.1 Result ... 96
3.1.5.56.2 Methods ... 96
3.1.5.56.2.1 Scalar Methods ... 96
3.1.5.56.2.2 ObjectPath Methods ... 96
3.1.5.57 Microsoft.SharePoint.WorkManagement.Client.TaskQueryByLocationResult ... 96
3.1.5.57.1 Properties ... 96
3.1.5.57.1.1 Scalar Properties ... 96
3.1.5.57.1.1.1 Error ... 96
3.1.5.57.1.1.2 ErrorMessage ... 97
3.1.5.57.1.2 ObjectPath Properties ... 97
3.1.5.57.1.2.1 Results ... 97
3.1.5.57.2 Methods ... 97
3.1.5.57.2.1 Scalar Methods ... 97
3.1.5.57.2.2 ObjectPath Methods ... 97
3.1.5.58 Microsoft.SharePoint.WorkManagement.Client.TaskQueryErrorType ... 97
3.1.5.58.1 Field Values ... 97
3.1.5.58.1.1 NoValue ... 97
3.1.5.58.1.2 QueryThrottled ... 97
3.1.5.59 Microsoft.SharePoint.WorkManagement.Client.TaskQueryResult ... 97
3.1.5.59.1 Properties ... 97
3.1.5.59.1.1 Scalar Properties ... 97
3.1.5.59.1.1.1 Error ... 98
3.1.5.59.1.1.2 ErrorMessage ... 98
3.1.5.59.1.2 ObjectPath Properties ... 98
3.1.5.59.1.2.1 Results ... 98
3.1.5.59.2 Methods ... 98
3.1.5.59.2.1 Scalar Methods ... 98
3.1.5.59.2.2 ObjectPath Methods ... 98
3.1.6 Timer Events ... 98
3.1.7 Other Local Events ... 98

4 Protocol Examples ... 99
4.1 Retrieving Active Tasks for a User ... 99
4.2 Updating a Task ... 102
4.3 Creating a New Task ... 102

5 Security ... 105
5.1 Security Considerations for Implementers ... 105
5.2 Index of Security Parameters ... 105

6 Appendix A: Product Behavior ... 106

7 Change Tracking ... 107

8 Index ... 108

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1 Introduction

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

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

1.1 Glossary

This document uses the following terms:

CSOM array: An ordered collection of values that can be used in an XML request or JSON response text. The values are identified by their position and their position is determined by a zero-based integer index.

CSOM Boolean: A Boolean value that can be used in an XML request or JSON response text. A CSOM Boolean value is either "true" or "false".

CSOM DateTime: An Int64 value that represents the number of 100-nanosecond time intervals that have elapsed since 12:00:00, January 1, 0001. It can be used in an XML request or as a string in JSON response text. The value can represent time intervals through 23:59:59.9999999, December 31, 9999. It can also specify whether a local, UTC, or no time zone applies.

CSOM Int32: A 32-bit, signed integer value, which is the INT32 type described in [MS-DTYP], that can be used in an XML request or as a number in JSON response text. The range of CSOM Int32 values is from "-2147483648" to "2147483647".

CSOM String: A representation of text as a series of Unicode characters. It can be used in an XML request or JSON response text.

CSOM UInt32: A 32-bit, unsigned integer value, which is the UINT32 type described in [MS-DTYP], that can be used in an XML request or as a number in JSON response text. The range of CSOM UInt32 values is from "0" to "4294967295".

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

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

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

list: A container within a SharePoint site that stores list items. A list has a customizable schema that is composed of one or more fields.

server: A replicating machine that sends replicated files to a partner (client). The term "server" refers to the machine acting in response to requests from partners that want to receive replicated files.

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

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

site: A group of related pages and data within a SharePoint site collection. The structure and content of a site is based on a site definition. Also referred to as SharePoint site and web site.

task: (1) An act to be executed by all query servers, and any requisite information for those query servers to execute that act correctly.

(2) An object that represents an assignment to be completed.

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

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

User Profile Service: A data source that stores, provides, and applies information about users.

view: See form view (Microsoft InfoPath), list view (SharePoint Products and Technologies), or View (Microsoft Business Connectivity Services).

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

1.2 References

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

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[MS-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-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

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1.3 Overview

This protocol defines types, methods, and properties that protocol clients use to access and manipulate **tasks (2)** assigned to a user on a protocol **server** 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 (2) **list**, updating a task (2), and changing the order of tasks (2).

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.

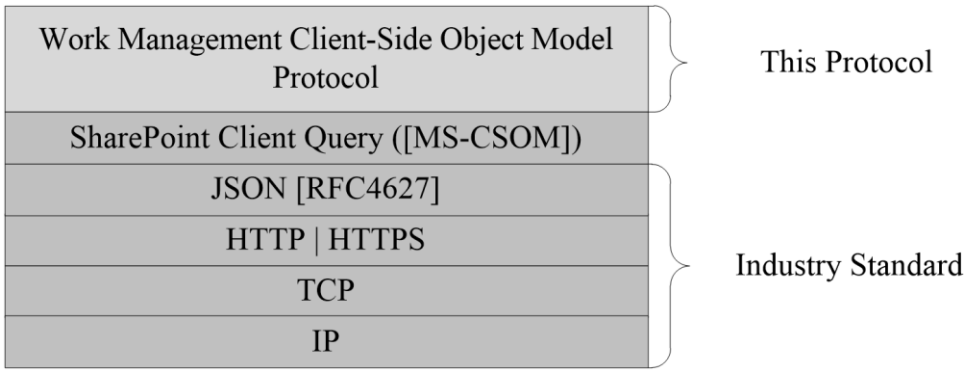

Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

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

This protocol operates against a protocol **server** that exposes one or more **endpoint 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.

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**. 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 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 that implement a different set of functionality compared to the set of functionality described for a collaboration server in [MS-WSSTS].

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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**. Localization-specific properties, such as the title of a **list**, are returned by using the preferred language of the user, if available, or by using the default language of the site as a fallback.

1.8 Vendor-Extensible Fields

A protocol **server** can provide additional properties and methods beyond those specified in this document to provide extended collaboration server 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 does not support the functionality or the administrator has disabled specific functionalities.

1.9 Standards Assignments

None.

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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** MUST validate the request from the protocol client. When a protocol server 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 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.

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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**.

The protocol server maintains a collection of **tasks (2)** assigned to the current user that serves as a task (2) cache. It also maintains a collection of locations from which the source tasks (2) originate, which can consist of locations on the protocol server or external server, and settings for the user for managing tasks (2).

Most methods in this protocol perform operations that create, read, update, or delete data on these stored tasks (2). However, the **BeginCacheRefresh** and **BeginExchangeSync** methods call web service **endpoints** 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 (2), or synchronize tasks (2) assigned to the user with another task (2) server determined by the configuration of the service application. Tasks (2) 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** that is used to access the work management **tasks (2)**.

3.1.5.1.1 Properties

3.1.5.1.1.1 Scalar Properties

None.

3.1.5.1.1.2 ObjectPath Properties

None.

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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 (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2) list** with new tasks (2) and with changes to existing tasks (2).

Parameters: None

3.1.5.1.2.2.3 CreateTask

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

Creates a new **task (2)**.

Parameters:

taskName: Specifies the task (2) name.

Type: **CSOM String**

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description: Specifies the task (2) 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 (2) is finished (true) or not (false).

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (2) location identifier. Use -1 to specify that the task (2) has no location.

Type: **CSOM Int32**

editUrl: Specifies the **URL** to edit the task (2).

Type: CSOM String

3.1.5.1.2.2.4 DeleteTask

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

Deletes a **task (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2)** 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.

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Type: **CSOM Int32**

3.1.5.1.2.2.7 PinTask

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

Marks a **task (2)** as pinned.

Parameters:

taskKey: Specifies the task (2) 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 (2)**. 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 (2) 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 (2)** as not pinned.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

3.1.5.1.2.2.10 UpdateTaskWithLocalizedValue

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

Updates a **task (2)** field with a localized value.

Parameters:

taskKey: Specifies the task (2) 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**

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3.1.5.1.2.2.11 GetCalloutInfo

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

Returns supplemental information about a **task (2)**.

Parameters:

taskKey: Identifier of the task (2) 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 (2)** settings that is not specific to tasks (2) themselves.

Parameters: None

3.1.5.1.2.2.13 RefreshSingleTask

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

Refreshes information about a specific **task (2)** with updates from the source.

Parameters:

taskKey: Identifier of the task (2) 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 (2)** 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 (2) 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 (2).

Type: **CSOM String**

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description: The description of the task (2).

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 (2) is finished.

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (2). -1 for personal tasks (2).

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 (2)** in the data source of the specified location and links it to the AWIOP (All My Work In One Place) representation.

For example, if the location identifier points to a **list**, calling this method would result in a task (2) being created in that list. The AWIOP task (2) would be changed to be a linked task (2) rather than a personal one, as if the task (2) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (2).

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.

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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 (2) list** 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 (2)**.

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.

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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.

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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

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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.

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3.1.5.8 Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

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

ShortName: SP.WorkManagement.OM.DateRangeCriterion

Filters a **task (2) list** 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

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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 (2)** 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 (2)**. 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

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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.

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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

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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 (2)** 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 (2)** that do not have a location in the results (true) or not (false).

3.1.5.13.1.2 ObjectPath Properties

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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 (2)**, 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** with **tasks (2)** grouped by location and sorted within each location group.

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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 (2)** to a new location if the task (2) is personal but does nothing if the task (2) comes from an external location. Returns true if the task (2) was moved successfully or false otherwise.

Parameters:

taskKey: Identifier of the task (2) 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 (2)**.

Parameters:

taskKey: Specifies the task (2) identifier.

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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 (2) list** with new tasks (2) and with changes to existing tasks (2).

Parameters: None

3.1.5.15.2.2.3 CreateTask

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

Creates a new **task (2)**.

Parameters:

taskName: Specifies the name of the task (2).

Type: **CSOM String**

description: Specifies the description of the task (2).

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 (2) is finished (true) or not (false)

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the location of the task (2). Use -1 to specify that the task (2) has no location.

Type: **CSOM Int32**

editUrl: Specifies the **URL** to edit the task (2).

Type: CSOM String

3.1.5.15.2.2.4 DeleteTask

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

Deletes a **task (2)**.

Parameters:

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taskKey: Specifies the task (2) 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 (2)** 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 (2)** as pinned.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

3.1.5.15.2.2.8 ReadTasks

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

Returns a collection of **tasks (2)** 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 (2)**. This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section 3.1.5.15.2.2.1.

Parameters:

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taskKey: Specifies the task (2) 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 (2)** as not pinned.

Parameters:

taskKey: Specifies the task (2) 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 (2)** with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (2) 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 (2)**.

Parameters:

taskKey: Identifier of the task (2) 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 (2)** settings that is not specific to tasks (2) themselves.

Parameters: None

3.1.5.15.2.2.14 RefreshSingleTask

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

Refreshes information about a specific **task (2)** with updates from the source.

Parameters:

taskKey: Identifier of the task (2) 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 (2)** 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 (2) 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 (2).

Type: **CSOM String**

description: The description of the task (2).

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 (2) is finished.

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (2). -1 for personal tasks (2).

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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 (2)** 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**, calling this method would result in a task (2) being created in that list. The AWIOP task (2) would be changed to be a linked task (2) rather than a personal one, as if the task (2) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (2).

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** with **tasks (2)** 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 (2)** to a new location if the task (2) is personal but does nothing if the task (2) comes from an external location. Returns true if the task (2) was moved successfully or false otherwise.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

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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 (2)**.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

newAfterTaskKey: Specifies the task (2) identifier for the task (2) 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 (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2) list** with new tasks (2) and with changes to existing tasks (2).

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Parameters: None

3.1.5.16.2.2.3 CreateTask

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

Creates a new **task (2)**.

Parameters:

taskName: Specifies the task (2) name.

Type: **CSOM String**

description: Specifies the task (2) description.

Type: CSOM String

localizedStartDate: Specifies the task (2) start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the task (2) due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (2) is finished (true) or not (false).

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (2) location identifier. Use -1 to specify that the task (2) has no location.

Type: **CSOM Int32**

editUrl: Specifies the **URL** to edit the task (2).

Type: CSOM String

3.1.5.16.2.2.4 DeleteTask

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

Deletes a **task (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2)** cache refresh.

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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 (2)** as pinned.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

3.1.5.16.2.2.8 ReadTasks

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

Returns a collection of **tasks (2)** 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 (2)**. 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 (2) identifier.

Type: **CSOM Int32**

attribute: Specifies the attribute to be removed.

Type: **CSOM String**

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3.1.5.16.2.2.10 RemovePinOnTask

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

Marks a **task (2)** as not pinned.

Parameters:

taskKey: Specifies the task (2) 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 (2)** with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (2) 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 (2)**.

Parameters:

taskKey: Identifier of the task (2) 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 (2)** settings that is not specific to tasks (2) themselves.

Parameters: None

3.1.5.16.2.2.14 RefreshSingleTask

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

Refreshes information about a specific **task (2)** with updates from the source.

Parameters:

taskKey: Identifier of the task (2) to be refreshed.

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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 (2)** 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 (2) 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 (2).

Type: **CSOM String**

description: The description of the task (2).

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 (2) is finished.

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned.

Type: CSOM Boolean

locationKey: The location key for the task (2). -1 for personal tasks (2).

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 (2)** in the data source of the specified location and links it to the AWIOP representation.

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For example, if the location identifier points to a **list**, calling this method would result in a task (2) being created in that list. The AWIOP task (2) would be changed to be a linked task (2) rather than a personal one, as if the task (2) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (2).

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 (2)** added since the last update.

3.1.5.17.1.1.2 AddedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of **tasks (2)** added since the previous update.

3.1.5.17.1.1.3 RemovedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of **tasks (2)** 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

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Type: **CSOM UInt32**

Accessibility: Read/Write

Specifies the number of **tasks (2)** 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 (2)** based on a string property representing the name of a task (2).

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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 (2)**.

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 (2)** 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.

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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

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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 (2)** is pinned.

3.1.5.22.1.3 NotPinned

Value: 2

Specifies that the **task (2)** 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** 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.

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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

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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

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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.

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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 (2)** 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

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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.

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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** of **tasks (2)** 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**

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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 (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2) list** with new tasks (2) and with changes to existing tasks (2).

Parameters: None

3.1.5.31.2.2.3 CreateTask

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

Creates a new **task (2)**.

Parameters:

taskName: Specifies the task (2) name.

Type: **CSOM String**

description: Specifies the task (2) 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 (2) is finished (true) or not (false).

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned (true) or not (false).

Type: CSOM Boolean

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locationKey: Specifies the task (2) location identifier. Use -1 to specify that the task (2) has no location.

Type: **CSOM Int32**

editUrl: Specifies the **URL** to edit the task (2).

Type: CSOM String

3.1.5.31.2.2.4 DeleteTask

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

Deletes a **task (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2)** 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 (2)** as pinned.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

3.1.5.31.2.2.8 ReadTasks

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

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Returns an ordered collection of **tasks (2)**, 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 (2)**. 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 (2) 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 (2)** as not pinned.

Parameters:

taskKey: Specifies the task (2) 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 (2)** with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (2) 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 (2)**.

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Parameters:

taskKey: Identifier of the task (2) 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 (2)** settings that is not specific to tasks (2) themselves.

Parameters: None

3.1.5.31.2.2.14 RefreshSingleTask

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

Refreshes information about a specific **task (2)** with updates from the source.

Parameters:

taskKey: Identifier of the task (2) 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 (2)** 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 (2) 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 (2).

Type: **CSOM String**

description: The description of the task (2).

Type: CSOM String

localizedStartDate: The start date in a localized string.

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Type: CSOM String

localizedDueDate: The due date in a localized string.

Type: CSOM String

completed: Specifies whether the task (2) is finished.

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (2). -1 for personal tasks (2).

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 (2)** 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**, calling this method would result in a task (2) being created in that list. The AWIOP task (2) would be changed to be a linked task (2) rather than a personal one, as if the task (2) had been created in the list and then aggregated by AWIOP.

Parameters:

taskKey: The identifier of the task (2).

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**, 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

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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**.

Parameters: None

3.1.5.32.2.2.2 CreateSession

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

Creates a sortable **session**.

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 (2)** 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.

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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 (2)** 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 (2)** 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 (2)** query.

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3.1.5.34.1.2.2 Order

Type: Microsoft.SharePoint.WorkManagement.Client.OrderInfo

Accessibility: Read/Write

Specifies the ordering for the **task (2)** 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.

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3.1.5.36 Microsoft.SharePoint.WorkManagement.Client.Task

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

ShortName: SP.WorkManagement.OM.Task

Represents a **task (2)**.

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 (2)**.

3.1.5.36.1.1.2 Description

Type: **CSOM String**

Accessibility: Read/Write

Specifies the **task (2)** description.

3.1.5.36.1.1.3 DueDate

Type: **CSOM DateTime**

Accessibility: Read/Write

Specifies the **task (2)** due date.

3.1.5.36.1.1.4 EditUrl

Type: **CSOM String**

Accessibility: Read/Write

Specifies the **URL** to edit the **task (2)**.

3.1.5.36.1.1.5 Id

Type: **CSOM Int32**

Accessibility: Read/Write

Specifies the **task (2)** identifier.

3.1.5.36.1.1.6 IsCompleted

Type: **CSOM Boolean**

Accessibility: Read/Write

Specifies whether the **task (2)** is finished (true) or not (false).

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3.1.5.36.1.1.7 IsPersonal

Type: **CSOM Boolean**

Accessibility: Read/Write

Specifies whether the **task (2)** 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 (2)** was modified.

3.1.5.36.1.1.9 Name

Type: **CSOM String**

Accessibility: Read/Write

Specifies the **task (2)** 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 (2)** was created.

3.1.5.36.1.1.11 SerializedCustomDataForClient

Type: **CSOM String**

Accessibility: Read/Write

Specifies serialized custom data for a **task (2)**.

3.1.5.36.1.1.12 StartDate

Type: **CSOM DateTime**

Accessibility: Read/Write

Specifies the time when the **task (2)** 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**

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Accessibility: Read/Write

A property that MAY be used to specify whether a **task (2)** 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 (2)**.

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}

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ShortName: SP.WorkManagement.OM.TaskFilter

Represents **task (2)** filter parameters for a task (2) 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 (2)** identifiers in the query.

3.1.5.38.1.1.2 IdsToFilterBy

Type: **CSOM array** of **CSOM Int32**

Accessibility: Read/Write

Specifies the **task (2)** 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 (2)** 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 (2)** 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 (2)** 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 (2)** by name.

3.1.5.38.1.2.5 StartDateRangeCriterion

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Type: Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

Accessibility: Read/Write

Represents the conditions used for filtering **tasks (2)** 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 (2)** from the **server**.

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

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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 (2)** write operation.

3.1.5.40.1 Properties

3.1.5.40.1.1 Scalar Properties

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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 (2)** 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** with **tasks (2)** 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

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3.1.5.41.2.1.1 ReorderTask

Return Type: None

Changes the order of a **task (2)**.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

newAfterTaskKey: Specifies the task (2) identifier for the task (2) 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 (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2) list** with new tasks (2) and with changes to existing tasks (2).

Parameters: None

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3.1.5.41.2.2.3 CreateTask

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

Creates a new **task (2)**.

Parameters:

taskName: Specifies the task (2) name.

Type: **CSOM String**

description: Specifies the task (2) 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 (2) is finished (true) or not (false).

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (2) location identifier. Use -1 to specify that the task (2) has no location.

Type: **CSOM Int32**

editUrl: Specifies the **URL** to edit the task (2).

Type: CSOM String

3.1.5.41.2.2.4 DeleteTask

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

Deletes a **task (2)**.

Parameters:

taskKey: Specifies the task (2) 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 (2)** cache refresh.

Parameters:

since: Specifies the date on which the history starts.

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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 (2)** as pinned.

Parameters:

taskKey: Specifies the task (2) identifier.

Type: **CSOM Int32**

3.1.5.41.2.2.8 ReadTasks

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

Returns a collection of **tasks (2)** 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 (2)**. 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 (2) 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 (2)** as not pinned.

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Parameters:

taskKey: Specifies the task (2) 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 (2)** with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (2) 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 (2)**.

Parameters:

taskKey: Identifier of the task (2) 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 (2)** settings that is not specific to tasks (2) themselves.

Parameters: None

3.1.5.41.2.2.14 RefreshSingleTask

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

Refreshes information about a specific **task (2)** with updates from the source.

Parameters:

taskKey: Identifier of the task (2) to be refreshed.

Type: **CSOM Int32**

3.1.5.41.2.2.15 GetRefreshHealthInfo

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

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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 (2)** 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 (2) 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 (2).

Type: **CSOM String**

description: The description of the task (2).

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 (2) is finished.

Type: **CSOM Boolean**

pinned: Specifies whether the task (2) is pinned.

Type: CSOM Boolean

locationKey: The location of the task (2). -1 for personal tasks (2).

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 (2)** 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**, calling this method would result in a task (2) being created in that list. The AWIOP task (2) would be changed to be a linked task (2) rather than a personal one, as if the task (2) had been created in the list and then aggregated by AWIOP.

Parameters:

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taskKey: The identifier of the task (2).

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** 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**.

Parameters: None

####### 3.1.5.42.2.2.2 CreateSession

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

Creates a user-ordered **session**.

Parameters: None

####### 3.1.5.42.2.2.3 CSOM Constructor

Creates a new **UserOrderedSessionManager** object.

Parameters: None

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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 (2)** 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 (2)** 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 (2)**.

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3.1.5.43.1.1.7 OldTasksLimit

Type: **CSOM Int32**

Accessibility: Read/Write

Specifies the number of months after which a **task (2)** 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 (2)** in the upcoming task (2) **list**.

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

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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 (2) server** for a user.

Parameters: None

3.1.5.44.2.1.4 OptOutOfExchangeSync

Return Type: **CSOM Boolean**

Turns off **task (2)** synchronization with a task (2) **server** for a user.

Parameters: None

3.1.5.44.2.1.5 SetPersistedProperties

Return Type: None

Sets metadata that persists across **sessions** 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

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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.

Parameters: None

3.1.5.44.2.2.7 GetPersistedProperties

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

Returns metadata that is persisted across **sessions** for a user.

Parameters: None

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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 (2) 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

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Flag: false

Defines the fields that can be updated on a **task (2)**.

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.WriteFieldErrorType

ShortName: SP.WorkManagement.OM.WriteFieldErrorType

Flag: false

Defines the error values from a field write.

3.1.5.47.1 Field Values

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3.1.5.47.1.1 NoValue

Value: 0

No value.

3.1.5.47.1.2 TaskNotFound

Value: 1

Specifies that the **task (2)** 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 (2)** 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.

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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 (2)** is not a personal task (2), and therefore cannot be promoted.

3.1.5.47.1.17 PromotionFailedInProvider

Value: 16

Specifies that the provider failed to promote the **task (2)**.

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

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Value: 1

Specifies that a **task (2)** is personal and visible only to the user.

3.1.5.48.1.3 Public

Value: 2

Specifies that the **task (2)** 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 (2)**.

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 (2)** 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** of **tasks (2)** where this task (2) is included.

3.1.5.49.1.1.3 DirectLinkUrl

Type: **CSOM String**

Accessibility: Read/Write

Url for the direct link for the **list** of **tasks (2)** where this task (2) is included.

3.1.5.49.1.1.4 Hierarchy

Type: **CSOM array** of **CSOM String**

Accessibility: Read/Write

Specifies **tasks (2)** that are parents of the current task (2).

3.1.5.49.1.1.5 Predecessors

Type: **CSOM array** of **CSOM String**

Accessibility: Read/Write

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Specifies **tasks (2)** that the current task (2) depends on.

3.1.5.49.1.1.6 Successors

Type: **CSOM array** of **CSOM String**

Accessibility: Read/Write

Specifies **tasks (2)** that depend on the current task (2).

3.1.5.49.1.1.7 Title

Type: **CSOM String**

Accessibility: Read/Write

The title of the **tasks (2)** container.

3.1.5.49.1.1.8 Url

Type: **CSOM String**

Accessibility: Read/Write

Specifies the **URL** to edit the **task (2)**.

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.

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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 (2) server** 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 (2) server**.

3.1.5.51.1.5 CouldNotFindOrCreateMySite

Value: 4

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

3.1.5.51.1.6 UserAlreadyOptedIn

Value: 5

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

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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 (2) server** 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 (2) server** is not available.

3.1.5.51.1.11 UnsupportedSharePointConfiguration

Value: 10

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

3.1.5.51.1.12 InvalidOrUnauthorizedUser

Value: 11

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

3.1.5.51.1.13 CouldNotActivateExchangeSyncFeatureOnSiteSubscription

Value: 12

Specifies that the synchronization operation could not be activated on the local **server**.

3.1.5.52 Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult

ShortName: SP.WorkManagement.OM.ExchangeSyncResult

Flag: false

Represents information about a **task (2)** server synchronization operation.

3.1.5.52.1 Field Values

3.1.5.52.1.1 NoValue

Value: 0

No value.

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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 (2) server**.

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 (2) server** 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**

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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 (2) list** and experience settings that is not specific to the tasks (2) 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 (2)** 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.

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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 (2) list** 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**

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Accessibility: Read/Write

Specifies whether the user's **task (2) list** is displayed as grouped by project or as a flat list.

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 (2)** 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 (2) list** has accumulated a large number of tasks (2) 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 (2)** from its source.

3.1.5.56.1 Properties

3.1.5.56.1.1 Scalar Properties

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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 (2)** 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 (2)** 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.

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3.1.5.57.1.1.2 ErrorMessage

Type: **CSOM String**

Accessibility: Read/Write

The error message for the failed **task (2)** 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 (2)**.

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 (2)** 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 (2)**.

3.1.5.59.1 Properties

3.1.5.59.1.1 Scalar Properties

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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 (2)** 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 (2)**.

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.

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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 (2)** 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" />
    <Query Id="54" ObjectPathId="52">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
      <ChildItemQuery SelectAllProperties="true">
```


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```
        <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** returns a **list** of tasks (2), 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 },
```


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```
  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)/"
       }
```


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```
        ]
    }
]
```

4.2 Updating a Task

In this example, the protocol client updates the title of a **task (2)** 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** responds with the new position of the updated task (2) in the sort order of the **list**.

```
[ { "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 (2)** with the name "Go to concert".

Request

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```
<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 (2) and its position in the sort order of the **list**.

```
 [ { "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,
```


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```
    { "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)/"
    }
  ]
```


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5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

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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 updates to those products.

- Microsoft SharePoint Server 2013

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

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7 Change Tracking

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

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8 Index

A

Abstract data model
  server 21
Applicability 18

C

Capability negotiation 19
Change tracking 107
Client – message processing 21
Client – sequencing rules 21
Common Exceptions message 20
Creating a new task example 102

D

Data model - abstract
  server 21

E

Examples
  creating a new task 102
  retrieving active tasks for a user 99
  updating a task 102

F

Fields - vendor-extensible 19

G

Glossary 16

H

Higher-layer triggered events
  server 21

I

Implementer - security considerations 105
Index of security parameters 105
Informative references 17
Initialization
  server 21
Introduction 16

M

Message processing - client 21
Messages
  Common Exceptions 20
  transport 20
Microsoft.SharePoint.WorkManagement.Client…
  BaseSession 21
  BooleanCompareType 26
  BooleanCriterion 27
  CalloutInfo 88
  CreateRefreshJobResult 27
  CriterionConcatType 28
  CustomAttributeFilter 29
  DashboardScriptExtensionInfo 30
  DashboardScriptExtensionInfoClientCollection 89
  DateRangeCriterion 31
  ExchangeOptInResult 90
  ExchangeSyncResult 91
  ExchangeUserSyncState 92
  GetRefreshHistoryResponse 31
  Location 32
  LocationClientCollection 34
  LocationDisplaySetting 34
  LocationFilter 35
  LocationGroupClientCollection 36
  LocationOrientedSortableSesstion 36
  LocationOrientedUserOrderedSession 42
  LocationUpdateResult 48
  LocationUpdateResultClientCollection 49
  NameCriterion 49
  NonTaskDataReadResult 93
  OrderInfo 50
  PersistedProperties 94
  PinAge 51
  PinnedState 51
  PrivacyType 87
  ProviderErrorInfo 52
  ProviderErrorInfoClientCollection 53
  ProviderRefreshStatus 53
  ProviderRefreshStatusClientCollection 54
  RefreshEventInfo 55
  RefreshEventInfoClientCollection 56
  RefreshHistory 57
  RefreshState 57
  SortableSession 58
  SortableSessionManager 63
  SortableTaskField 64
  SortableTaskQuery 65
  StringCompareType 66
  Task 67
  TaskClientCollection 69
  TaskFilter 69
  TaskQuery 71
  TaskRefreshResult 95
  TaskWriteResult 72
  UserOrderedSession 73
  UserOrderedSessionManager 79
  UserSettings 80
  UserSettingsManager 81
  ViewSelectionInfo 84
  WritableTaskField 84
  WriteFieldErrorType 85

N

Normative references 17

O

Other local events
  server 98
Overview (synopsis) 18

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P

Parameters - security index 105
Preconditions 18
Prerequisites 18
Product behavior 106

R

References 17
  informative 17
  normative 17
Relationship to other protocols 18
Retrieving active tasks for a user example 99

S

Security
  implementer considerations 105
  parameter index 105
Sequencing rules - client 21
Server
  abstract data model 21
  higher-layer triggered events 21
  initialization 21
  other local events 98
  timer events 98
  timers 21
Standards assignments 19

T

Timer events
  server 98
Timers
  server 21
Tracking changes 107
Transport 20
Triggered events - higher-layer
  server 21

U

Updating a task example 102

V

Vendor-extensible fields 19
Versioning 19

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