

[MS-WMCSOM]:

Work Management Client-Side Object Model Protocol

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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.

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>

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.

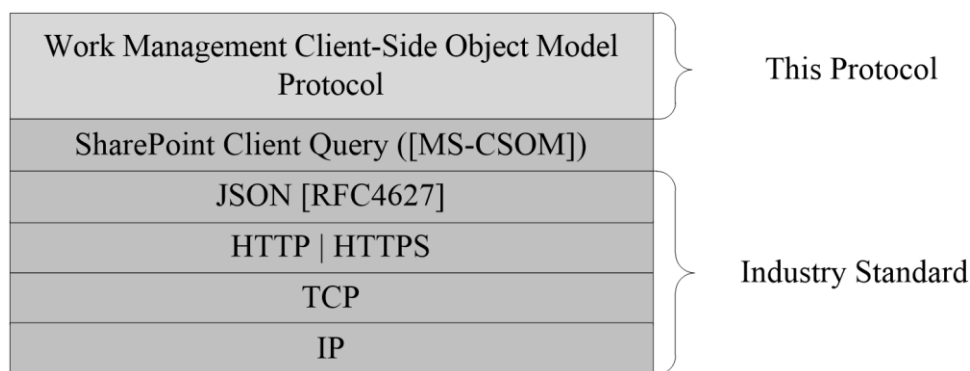


Figure 1: This protocol in relation to other protocols

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 (2).

1.6 Applicability Statement

This protocol can be used by a protocol client to read data from, write data to, and execute operations against a protocol **server**. 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 [\[MS-WSSTS\]](#).

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.

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 (2) can return other exceptions to the protocol client, for which the protocol client could use the error message for display purpose but could not use the error code or error type to determine the causes of the exception.

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

3 Protocol Details

3.1 Server Details

3.1.1 Abstract Data Model

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

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.

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

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.

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**

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**

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.

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](#).

3.1.5.4.1 Properties

3.1.5.4.1.1 Scalar Properties

3.1.5.4.1.1.1 CreatedJob

Type: CSOM Boolean

Accessibility: Read/Write

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

3.1.5.4.1.1.2 CurrentJobId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the created job identifier.

3.1.5.4.1.1.3 EncounteredError

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether an error was encountered.

3.1.5.4.1.2 ObjectPath Properties

None.

3.1.5.4.2 Methods

3.1.5.4.2.1 Scalar Methods

None.

3.1.5.4.2.2 ObjectPath Methods

None.

3.1.5.5 Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

ShortName: SP.WorkManagement.OM.CriterionConcatType

Flag: false

Defines the logical types of criterion concatenation.

3.1.5.5.1 Field Values

3.1.5.5.1.1 NoValue

Value: 0

No value.

3.1.5.5.1.2 All

Value: 1

All criteria SHOULD be true (logical AND).

3.1.5.5.1.3 Any

Value: 2

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

3.1.5.6 Microsoft.SharePoint.WorkManagement.Client.CustomAttributeFilter

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

ShortName: SP.WorkManagement.OM.CustomAttributeFilter

Represents a filter with custom attributes.

3.1.5.6.1 Properties

3.1.5.6.1.1 Scalar Properties

3.1.5.6.1.1.1 Attributes

Type: CSOM array of CSOM String

Accessibility: Read/Write

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

3.1.5.6.1.1.2 ConcatType

Type: Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

Accessibility: Read/Write

Specifies how to concatenate the attribute results.

3.1.5.6.1.2 ObjectPath Properties

None.

3.1.5.6.2 Methods

3.1.5.6.2.1 Scalar Methods

None.

3.1.5.6.2.2 ObjectPath Methods

3.1.5.6.2.2.1 CSOM Constructor

Creates a new **CustomAttributeFilter** object.

Parameters: None

3.1.5.7 Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfo

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

ShortName: SP.WorkManagement.OM.DashboardScriptExtensionInfo

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

3.1.5.7.1 Properties

3.1.5.7.1.1 Scalar Properties

3.1.5.7.1.1.1 ProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the provider identifier.

3.1.5.7.1.1.2 ScriptClass

Type: CSOM String

Accessibility: Read/Write

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

3.1.5.7.1.1.3 ScriptData

Type: CSOM String

Accessibility: Read/Write

Specifies provider-specific custom data for a JavaScript extension.

3.1.5.7.1.1.4 ScriptFiles

Type: CSOM array of CSOM String

Accessibility: Read/Write

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

3.1.5.7.1.2 ObjectPath Properties

None.

3.1.5.7.2 Methods

3.1.5.7.2.1 Scalar Methods

None.

3.1.5.7.2.2 ObjectPath Methods

None.

3.1.5.8 Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

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

ShortName: SP.WorkManagement.OM.DateRangeCriterion

Filters a **task (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: {8FE9D942-9CC1-47C0-9153-02A636BFD5DF}

ShortName: SP.WorkManagement.OM.RefreshHealthInfo

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

3.1.5.9.1 Properties

3.1.5.9.1.1 Scalar Properties

3.1.5.9.1.1.1 LatestRefreshTime

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time of the most recent refresh.

3.1.5.9.1.1.2 Succeeded

Type: CSOM Boolean

Accessibility: Read/Write

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

3.1.5.9.1.1.3 NewTasks

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of new **tasks (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

3.1.5.10.1.1.1 Color

Type: CSOM String

Accessibility: Read/Write

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

3.1.5.10.1.1.2 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.10.1.1.3 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the location.

3.1.5.10.1.1.4 ParentId

Type: CSOM Int32

Accessibility: Read/Write

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

3.1.5.10.1.1.5 RootProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the root provider identifier of the location.

3.1.5.10.1.1.6 Url

Type: CSOM String

Accessibility: Read/Write

Specifies the **URL** of the location.

3.1.5.10.1.1.7 Important

Type: CSOM Boolean

Accessibility: Read/Write

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

3.1.5.10.1.2 ObjectPath Properties

None.

3.1.5.10.2 Methods

3.1.5.10.2.1 Scalar Methods

None.

3.1.5.10.2.2 ObjectPath Methods

3.1.5.10.2.2.1 CSOM Constructor

Creates a new **Location** object.

Parameters: None

3.1.5.11 Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

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

ShortName: SP.WorkManagement.OM.LocationClientCollection

Represents a collection of locations.

3.1.5.11.1 Properties

3.1.5.11.1.1 Scalar Properties

None.

3.1.5.11.1.2 ObjectPath Properties

None.

3.1.5.11.2 Methods

3.1.5.11.2.1 Scalar Methods

None.

3.1.5.11.2.2 ObjectPath Methods

None.

3.1.5.12 Microsoft.SharePoint.WorkManagement.Client.LocationDisplaySetting

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

ShortName: SP.WorkManagement.OM.LocationDisplaySetting

Represents the display settings for a location.

3.1.5.12.1 Properties

3.1.5.12.1.1 Scalar Properties

3.1.5.12.1.1.1 Color

Type: CSOM String

Accessibility: Read/Write

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

3.1.5.12.1.1.2 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.12.1.2 ObjectPath Properties

None.

3.1.5.12.2 Methods

3.1.5.12.2.1 Scalar Methods

None.

3.1.5.12.2.2 ObjectPath Methods

None.

3.1.5.13 Microsoft.SharePoint.WorkManagement.Client.LocationFilter

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

ShortName: SP.WorkManagement.OM.LocationFilter

Represents a **task (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

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.

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.

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:

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:

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

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).

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**

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).

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.

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**

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.

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.

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

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).

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.

3.1.5.20.1.1.2 IsDescending

Type: CSOM Boolean

Accessibility: Read/Write

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

3.1.5.20.1.2 ObjectPath Properties

None.

3.1.5.20.2 Methods

3.1.5.20.2.1 Scalar Methods

None.

3.1.5.20.2.2 ObjectPath Methods

3.1.5.20.2.2.1 CSOM Constructor

Creates a new **OrderInfo** object.

Parameters: None

3.1.5.21 Microsoft.SharePoint.WorkManagement.Client.PinAge

ShortName: SP.WorkManagement.OM.PinAge

Flag: false

Defines the time period since the pin was created.

3.1.5.21.1 Field Values

3.1.5.21.1.1 NoValue

Value: 0

No value.

3.1.5.21.1.2 Fresh

Value: 1

Specifies that the pin is fresh.

3.1.5.21.1.3 Stale

Value: 2

Specifies that the pin is stale.

3.1.5.22 Microsoft.SharePoint.WorkManagement.Client.PinnedState

ShortName: SP.WorkManagement.OM.PinnedState

Flag: false

Defines the pin state values.

3.1.5.22.1 Field Values

3.1.5.22.1.1 NoValue

Value: 0

No value.

3.1.5.22.1.2 Pinned

Value: 1

Specifies that the **task (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.

3.1.5.23.1.2 ObjectPath Properties

None.

3.1.5.23.2 Methods

3.1.5.23.2.1 Scalar Methods

None.

3.1.5.23.2.2 ObjectPath Methods

None.

3.1.5.24 Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfoClientCollection

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

ShortName: SP.WorkManagement.OM.ProviderErrorInfoClientCollection

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

3.1.5.24.1 Properties

3.1.5.24.1.1 Scalar Properties

None.

3.1.5.24.1.2 ObjectPath Properties

None.

3.1.5.24.2 Methods

3.1.5.24.2.1 Scalar Methods

None.

3.1.5.24.2.2 ObjectPath Methods

None.

3.1.5.25 Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatus

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

ShortName: SP.WorkManagement.OM.ProviderRefreshStatus

Represents the status of a provider refresh.

3.1.5.25.1 Properties

3.1.5.25.1.1 Scalar Properties

3.1.5.25.1.1.1 ProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the provider identifier.

3.1.5.25.1.1.2 ProviderLocalizedName

Type: CSOM String

Accessibility: Read/Write

Specifies the localized name of the provider.

3.1.5.25.1.1.3 RefreshFinished

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh finished.

3.1.5.25.1.1.4 RefreshStarted

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh started.

3.1.5.25.1.1.5 RootLocationId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the root location identifier of the provider.

3.1.5.25.1.2 ObjectPath Properties

None.

3.1.5.25.2 Methods

3.1.5.25.2.1 Scalar Methods

None.

3.1.5.25.2.2 ObjectPath Methods

None.

3.1.5.26 Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatusClientCollection

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

ShortName: SP.WorkManagement.OM.ProviderRefreshStatusClientCollection

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

3.1.5.26.1 Properties

3.1.5.26.1.1 Scalar Properties

None.

3.1.5.26.1.2 ObjectPath Properties

None.

3.1.5.26.2 Methods

3.1.5.26.2.1 Scalar Methods

None.

3.1.5.26.2.2 ObjectPath Methods

None.

3.1.5.27 Microsoft.SharePoint.WorkManagement.Client.RefreshResult

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

ShortName: SP.WorkManagement.OM.RefreshResult

Represents information about a refresh.

3.1.5.27.1 Properties

3.1.5.27.1.1 Scalar Properties

3.1.5.27.1.1.1 AggregatorRefreshState

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshState

Accessibility: Read/Write

Specifies the state of the aggregator refresh.

3.1.5.27.1.1.2 CorrelationId

Type: CSOM String

Accessibility: Read/Write

Specifies the **CorrelationId** of the error.

3.1.5.27.1.1.3 RefreshFinished

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh finished.

3.1.5.27.1.1.4 RefreshId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the refresh identifier.

3.1.5.27.1.2 ObjectPath Properties

3.1.5.27.1.2.1 TaskChangesByLocation

Type: Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResultClientCollection

Accessibility: Read/Write

Specifies a collection of updated **task (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

None.

3.1.5.28.2.2 ObjectPath Methods

None.

3.1.5.29 Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

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

ShortName: SP.WorkManagement.OM.RefreshHistory

Represents information about the refresh history.

3.1.5.29.1 Properties

3.1.5.29.1.1 Scalar Properties

None.

3.1.5.29.1.2 ObjectPath Properties

3.1.5.29.1.2.1 Refreshes

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfoClientCollection

Accessibility: Read/Write

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

3.1.5.29.2 Methods

3.1.5.29.2.1 Scalar Methods

None.

3.1.5.29.2.2 ObjectPath Methods

None.

3.1.5.30 Microsoft.SharePoint.WorkManagement.Client.RefreshState

ShortName: SP.WorkManagement.OM.RefreshState

Flag: false

Defines the refresh state values.

3.1.5.30.1 Field Values

3.1.5.30.1.1 NoValue

Value: 0

No value.

3.1.5.30.1.2 Pending

Value: 1

Specifies that the refresh is pending.

3.1.5.30.1.3 Ignored

Value: 2

Specifies that the refresh was ignored.

3.1.5.30.1.4 Succeeded

Value: 3

Specifies that the refresh succeeded.

3.1.5.30.1.5 Failed

Value: 4

Specifies that the refresh failed.

3.1.5.31 Microsoft.SharePoint.WorkManagement.Client.SortableSession

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

ShortName: SP.WorkManagement.OM.SortableSession

Represents a **session** 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

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

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

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)**.

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.

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

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.

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.

3.1.5.33.1.10Title

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.

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.

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).

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

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}

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

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

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

3.1.5.40.1.1.1 Error

Type: Microsoft.SharePoint.WorkManagement.Client.WriteFieldType

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

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

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.

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.

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

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:

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

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)**.

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

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

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

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

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.WriteFieldType

ShortName: SP.WorkManagement.OM.WriteFieldType

Flag: false

Defines the error values from a field write.

3.1.5.47.1 Field Values

3.1.5.47.1.1 NoValue

Value: 0

No value.

3.1.5.47.1.2 TaskNotFound

Value: 1

Specifies that the **task (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.

3.1.5.47.1.10StartDateInvalid

Value: 9

Specifies that the start date was not valid.

3.1.5.47.1.11DescriptionInvalid

Value: 10

Specifies that the description was not valid.

3.1.5.47.1.12IsCompletedInvalid

Value: 11

Specifies that the completion value was not valid.

3.1.5.47.1.13TitleInvalid

Value: 12

Specifies that the title was not valid.

3.1.5.47.1.14EditUrlInvalid

Value: 13

Specifies that the edit **URL** was not valid.

3.1.5.47.1.15AccessDenied

Value: 14

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

3.1.5.47.1.16PromoteTargetTaskNotPersonal

Value: 15

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

3.1.5.47.1.17PromotionFailedInProvider

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

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

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.DashboardScriptExtension InfoClientCollection

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

ShortName: SP.WorkManagement.OM.DashboardScriptExtensionInfoClientCollection

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

3.1.5.50.1 Properties

3.1.5.50.1.1 Scalar Properties

None.

3.1.5.50.1.2 ObjectPath Properties

None.

3.1.5.50.2 Methods

3.1.5.50.2.1 Scalar Methods

None.

3.1.5.50.2.2 ObjectPath Methods

None.

3.1.5.51 Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult

ShortName: SP.WorkManagement.OM.ExchangeOptInResult

Flag: false

Represents status information for an operation to enable synchronization with an external **task (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.

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.

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**

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.

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

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

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.

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

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.

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">
```

```

        <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 },

```

54,

```
{  
  
  "_ObjectType_" : "SP.WorkManagement.OM.LocationGroupClientCollection"  
  "_Child_Items_" : [ {  
    "_ObjectType_" : "SP.WorkManagement.OM.Task"  
    "CustomAttributes" : [ ],  
  
    "Description" : null,  
    "DueDate" : "/Date(2011,10,18,0,0,0,0)/",  
    "EditUrl" : "EditTask.aspx?taskId=13",  
    "Id" : 13,  
    "IsCompleted" : false,  
    "IsPersonal" : true,  
"LastModified" : "/Date(1321572834000)/",  
    "LocationId" : -1,  
    "Name" : "Remember the Milk",  
    "PinAge" : 0,  
    "SerializedCustomDataForClient" : null,  
    "StartDate" : "/Date(1,0,1,0,0,0,0)/"  
  },  
  {  
  
    "_ObjectType_" : "SP.WorkManagement.OM.Task"  
    "CustomAttributes" : [ ],  
  
    "Description" : null,  
    "DueDate" : "/Date(2011,3,29,10,0,0,0)/",  
    "EditUrl" : "http://office:80/project/TaskDetails.aspx?proj=dca8826e-6562-49b1-a968-853400d76085&assn=f4a10d33-dd48-4d1e-8b17-3dd327e9e219",  
    "Id" : 1,  
    "IsCompleted" : false,  
    "IsPersonal" : false,  
"LastModified" : "/Date(1321572850000)/",  
    "LocationId" : 2,  
    "Name" : "Get Groceries",  
    "PinAge" : 0,  
    "SerializedCustomDataForClient" :  
    "{\\\"isProjectServerTask\\\":true,\\\"taskData\\\":\\\"{\\\"pwaUrl\\\":\\\"http://office/project\\\",\\\"assnUid\\\":\\\"f4a10d33-dd48-4d1e-8b17-3dd327e9e219\\\",\\\"taskUid\\\":\\\"cfba49cb-3548-468c-91c0-e6df5f63ab75\\\"}\\\"}",  
    "StartDate" : "/Date(2011,3,11,1,0,0,0)/"  
  },  
  {  
  
    "_ObjectType_" : "SP.WorkManagement.OM.Task"  
    "CustomAttributes" : [ ],  
  
    "Description" : null,  
    "DueDate" : "/Date(2011,7,16,5,0,0,0)/",  
    "EditUrl" : "http://office:80/project/TaskDetails.aspx?proj=a2178405-843c-447b-91ee-8bdeef8d9498&assn=6ed66c3f-5e51-4a3c-a5b0-6e2c6bc7b3c2",  
    "Id" : 2,  
    "IsCompleted" : false,  
    "IsPersonal" : false,  
"LastModified" : "/Date(1321572857000)/",  
    "LocationId" : 4,  
    "Name" : "Pay Rent",  
    "PinAge" : 0,  
    "SerializedCustomDataForClient" :  
    "{\\\"isProjectServerTask\\\":true,\\\"taskData\\\":\\\"{\\\"pwaUrl\\\":\\\"http://office/project\\\",\\\"assnUid\\\":\\\"6ed66c3f-5e51-4a3c-a5b0-6e2c6bc7b3c2\\\",\\\"taskUid\\\":\\\"42cad6a0-3bf7-44ae-b953-0acaad394a6f\\\"}\\\"}",  
    "StartDate" : "/Date(2011,7,7,1,0,0,0)/"  
  }  
}
```

```

    ]
  }
]

```

4.2 Updating a Task

In this example, the protocol client updates the title of a **task (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

```

<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,

```

```
{ "IsNull" : false },
10,
{ "_ObjectType_" : "SP.WorkManagement.OM.Task"
  "CustomAttributes" : [ ],
  "Description" : null,
  "DueDate" : "/Date(2011,10,23,0,0,0,0)/",
  "EditUrl" : "EditTask.aspx?taskId=15",
  "Id" : 15,
  "IsCompleted" : false,
  "IsPersonal" : true,
  "LastModified" : "/Date(1321573451000)/",
  "LocationId" : -1,
  "Name" : "Go to concert",
  "PinAge" : 0,
  "SerializedCustomDataForClient" : null,
  "StartDate" : "/Date(1,0,1,0,0,0,0)/"
}
]
```


5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Product Behavior

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

7 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

Section	Description	Revision class
3.1.5.44.2.1.3 OptIntoExchangeSync	Removed the product behavior note for the OptIntoExchangeSync method.	Major
3.1.5.44.2.1.4 OptOutOfExchangeSync	Removed the product behavior note for the OptOutOfExchangeSync method.	Major
3.1.5.44.2.2.6 GetExchangeSyncInfo	Removed the product behavior note for the GetExchangeSyncInfo method.	Major

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