

# [MS-CSOMSPT]: SharePoint Client-Side Object Model Protocol Specification

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## Revision Summary

Date	Revision History	Revision Class	Comments
07/13/2009	0.1	Major	Initial Availability
08/28/2009	0.2	Editorial	Revised and edited the technical content
11/06/2009	0.3	Editorial	Revised and edited the technical content
02/19/2010	1.0	Major	Updated and revised the technical content
03/31/2010	1.01	Editorial	Revised and edited the technical content
04/30/2010	1.02	Minor	Updated the technical content
06/07/2010	1.03	Editorial	Revised and edited the technical content
06/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
07/23/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
09/27/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
03/18/2011	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
06/10/2011	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
01/20/2012	2.0	Major	Significantly changed the technical content.
04/11/2012	2.0	No change	No changes to the meaning, language, or formatting of the technical content.
07/16/2012	2.0	No change	No changes to the meaning, language, or formatting of

Date	Revision History	Revision Class	Comments
			the technical content.

Preliminary

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Preliminary

# 1 Introduction

This document specifies types, methods, and properties of the SharePoint Client-Side Object Model Protocol that can be used to communicate with and manipulate aspects of a collaboration **server (2)**.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

## 1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

- Active Directory**
- application**
- authentication**
- Coordinated Universal Time (UTC)**
- GUID**
- Hypertext Transfer Protocol (HTTP)**
- language code identifier (LCID)**
- object**
- principal**
- security policy**
- server**
- topology**
- XML**

The following terms are defined in [\[MS-OFCGLOS\]](#):

- absolute URL**
- alert**
- anchor text**
- app**
- app instance**
- app package**
- app product identifier**
- attachment**
- back-end database server**
- base field type**
- base type**
- base view identifier**
- blog**
- Boolean**
- Business Data Connectivity (BDC)**
- calendar type**
- cascading behavior**
- change log**
- change token**
- check out**
- checked out**
- child**
- claims provider**
- collation**

**computed field**  
**configuration database**  
**content database**  
**content type**  
**content type group**  
**content type identifier**  
**content type order**  
**crawl**  
**crawler**  
**Creator**  
**CSOM array**  
**CSOM Boolean**  
**CSOM Char**  
**CSOM DateTime**  
**CSOM dictionary**  
**CSOM Double**  
**CSOM error**  
**CSOM expando field**  
**CSOM GUID**  
**CSOM Int16**  
**CSOM Int32**  
**CSOM Int64**  
**CSOM Object**  
**CSOM String**  
**CSOM UInt32**  
**current user**  
**current version**  
**custom action**  
**custom list**  
**data connection library**  
**data source**  
**data validation**  
**datasheet**  
**default list view**  
**default mobile list view**  
**default view**  
**dependent lookup field**  
**designer**  
**discussion board**  
**discussion item**  
**display form**  
**display name**  
**distribution list**  
**document**  
**document identifier**  
**document library**  
**document stream**  
**document template**  
**draft**  
**edit form**  
**e-mail address**  
**empty GUID**  
**Entity**  
**EntityInstance**  
**event**

**event receiver**  
**exclusive lock**  
**external content type**  
**external list**  
**farm**  
**feature**  
**feature definition**  
**feature identifier**  
**feature scope**  
**field**  
**field definition**  
**field identifier**  
**field internal name**  
**field type**  
**file**  
**file extension**  
**Finder**  
**floating-point number**  
**folder**  
**form**  
**form digest**  
**form library**  
**form template (.xsn) file**  
**gallery**  
**group**  
**hidden**  
**historical version**  
**host name**  
**HTTP method**  
**HTTP referer**  
**hyperlink**  
**Hypertext Markup Language (HTML)**  
**icon**  
**IME**  
**indexed field**  
**Information Rights Management (IRM)**  
**item**  
**item identifier**  
**JavaScript Object Notation (JSON)**  
**leaf name**  
**line-of-business (LOB) system**  
**link**  
**link bar**  
**list**  
**list form**  
**list identifier**  
**list item**  
**list item attachment**  
**list item identifier**  
**list schema**  
**list server template**  
**list template**  
**list view**  
**list view page**  
**LobSystemInstance**



**locked**  
**login name**  
**lookup field**  
**major version**  
**marketplace license**  
**master page**  
**Meeting Workspace site**  
**member**  
**membership**  
**MetadataCatalog**  
**MethodInstance**  
**minor version**  
**mobile device**  
**mobile list view**  
**moderation status**  
**navigation node**  
**new form**  
**owner**  
**page**  
**page type**  
**paged view**  
**parent list**  
**parent site**  
**permission**  
**permission level**  
**personal view**  
**personalization data**  
**picture library**  
**policy**  
**presence**  
**primary lookup field**  
**ProgID**  
**public view**  
**published**  
**published version**  
**publishing level**  
**query**  
**Quick Launch**  
**reading order**  
**Recycle Bin**  
**Recycle Bin item**  
**reference**  
**regional settings**  
**relationship delete behavior**  
**relationship lookup field**  
**resource folder**  
**restrict behavior**  
**rich text**  
**rights**  
**role**  
**role assignment**  
**role definition**  
**root element**  
**root folder**  
**schema version**

**securable object**  
**security group**  
**server-relative URL**  
**Session Initiation Protocol (SIP)**  
**shared lock**  
**Simple Object Access Protocol (SOAP)**  
**site**  
**site collection**  
**site collection administrator**  
**site collection quota**  
**site column**  
**site content type**  
**site definition**  
**site definition configuration**  
**site identifier**  
**site solution**  
**site subscription**  
**site template**  
**site title**  
**site-relative URL**  
**SpecificFinder**  
**Status-Code**  
**stream**  
**strong name**  
**subsite**  
**survey list**  
**task**  
**template**  
**theme**  
**thicket supporting file**  
**time zone**  
**toolbar**  
**ToolTip**  
**top-level site**  
**TypeDescriptor**  
**uncustomized**  
**Uniform Resource Identifier (URI)**  
**Uniform Resource Locator (URL)**  
**unique column constraint**  
**Updater**  
**upgrade evaluation site collection**  
**user information list**  
**version**  
**view**  
**View**  
**view identifier**  
**visual upgrade**  
**Web application**  
**Web discussion**  
**Web discussion comment**  
**Web Distributed Authoring and Versioning Protocol (WebDAV)**  
**Web Part**  
**Web Part identifier**  
**Web Part Page**  
**Web Part zone**

**Web Part zone index**  
**Web site**  
**Welcome page**  
**workflow**  
**workflow association**  
**workflow history list**  
**workflow identifier**  
**workflow initiation form**  
**workflow instance**  
**workflow task**  
**workflow task list**  
**workflow template**  
**XML document**  
**XML element**  
**XML fragment**  
**XML schema**

The following terms are specific to this document:

**calculated field:** A user-defined field that can perform calculations by using the contents of other fields.

**data validation criteria:** See data validation.

**declarative workflow:** A workflow that is created with XAML (Extensible Application Markup Language) files and does not require precompiled code to run.

**default scalar property set:** A set of properties that are retrieved by default for an object. The properties map to fields in a storage schema.

**field group:** A named collection of related fields.

**field link:** A property that specifies a reference from a content type to a field (2) or field definition.

**list definition:** An XML-based definition of the set of fields, forms, views, and default properties for a list (1).

**list folder:** A folder that is contained within a SharePoint list. A list folder can contain documents or list items, and it retains the characteristics of other items in the list, such as a customizable schema.

**personalization scope:** A mode of the Web Part Manager that indicates whether the available data is shared by all users or specific to an individual user.

**personalized Web Parts:** A Web Part that has been modified by a user for personal use. The view of the Web Part is unavailable to other users.

**relationship behavior constraint:** A setting that defines any dependent relationships, such as cascading or restrict behaviors, between list items.

**site collection group:** A named collection of users and domain groups that can be managed for a site collection or site. A group can be used to assign permission levels, send e-mail messages, and indicate site membership for multiple users simultaneously.

**user custom action:** An extension to the user interface, such as a button on a toolbar or a link on a site settings page, that is submitted by a user of a site collection. Unlike a custom action, the definition of a user custom action is stored in a back-end database server.

**view style:** A pre-defined, named collection of settings that specify how to lay out data in a list view.

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

## 1.2 References

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

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[ECMA-262] ECMA International, "ECMAScript Language Specification" ECMA-262, December 1999, <http://www.ecma-international.org/publications/standards/Ecma-262.htm>

[ISO-8601] International Organization for Standardization, "Data Elements and Interchange Formats - Information Interchange - Representation of Dates and Times", ISO/IEC 8601:2004, December 2004, <http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40874&ICS1=1&ICS2=140&ICS3=30>

**Note** There is a charge to download the specification.

[MC-CSDL] Microsoft Corporation, "[Conceptual Schema Definition File Format](#)".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.ietf.org/rfc/rfc2616.txt>

[RSS2.0] Winer, D., "RSS 2.0 Specification", Fall 2002, version 2.0.1: July 2003, <http://cyber.law.harvard.edu/rss/rss.html>

### 1.2.2 Informative References

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

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

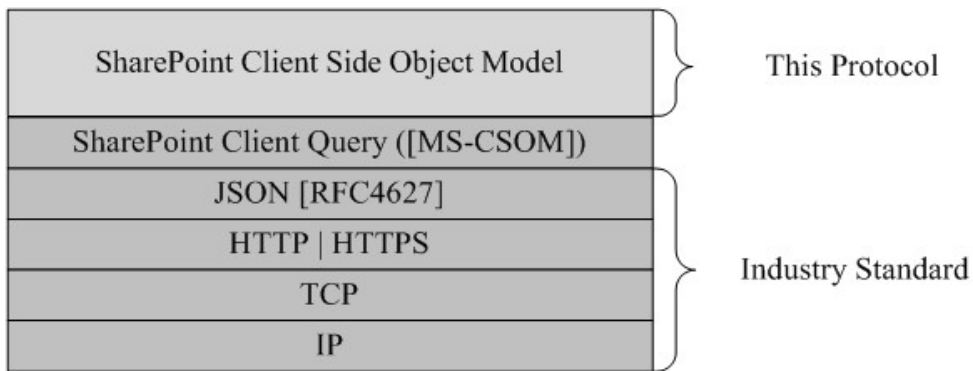
[RFC5234] Crocker, D., Ed., and Overell, P., "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, January 2008, <http://www.rfc-editor.org/rfc/rfc5234.txt>

### 1.3 Protocol Overview (Synopsis)

This protocol defines types, methods, and properties that protocol clients use to access **site (2)**, **list (1)**, and other types of data associated with a collaboration server (2). The set of types and **members (1)** provide a means for remote clients to perform collaboration and communication **tasks (2)**, such as updating **items** or checking in **documents**.

### 1.4 Relationship to Other Protocols

This 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 specifies properties, methods, and types used to access a collaboration server (2) as described in [\[MS-WSSTS\]](#).



**Figure 1: This protocol in relation to other protocols**

### 1.5 Prerequisites/Preconditions

This protocol operates against a site (2) that is identified by a **URL** that is known by protocol clients. This protocol assumes that **authentication** has been performed by underlying protocols.

### 1.6 Applicability Statement

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

### 1.7 Versioning and Capability Negotiation

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

### 1.8 Vendor-Extensible Fields

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

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

### 1.9 Standards Assignments

None.

## 2 Messages

### 2.1 Transport

[MS-CSOM] is used for transport.

### 2.2 Message Syntax

None.

#### 2.2.1 Common Exceptions

The protocol server (2) MUST validate the request from the protocol client and return the exception listed in the following table to the protocol client under the specified conditions.

Error Code	Error Type Name	Condition
- 2130575251	Microsoft.SharePoint.SPException	The protocol server (2) requires a <b>form digest</b> but the form digest in the <b>X-RequestDigest</b> HTTP header is not as same as the one generated by the protocol server (2).
- 2130575252	Microsoft.SharePoint.Exception	The protocol client sent a valid form digest in the <b>X-RequestDigest</b> ([MS-WSSHP] section 2.2.11 and [MS-SITESS] section 3.1.4) HTTP header, but the form digest is expired.
- 2146232832	Microsoft.SharePoint.SPException	The protocol server (2) requires a form digest but the protocol client did not send an <b>X-RequestDigest</b> ([MS-WSSHP] section 2.2.11) HTTP header.

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

Error Code	Error Type Name	Condition
- 2147024891	System.UnauthorizedAccessException	The user does not have <b>permission</b> 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 purposes but could not use the error code or error type to determine the causes of the exception.

Unless specified, exceptions listed for the specific properties are thrown for both read and write operations.

## 3 Protocol Details

### 3.1 Common Details

The protocol server (2) endpoint is formed by appending "\_vti\_bin/client.svc/ProcessQuery" to the URL of the site (2), for example [http://www.contoso.com/Repository/\\_vti\\_bin/client.svc/ProcessQuery](http://www.contoso.com/Repository/_vti_bin/client.svc/ProcessQuery).

The length of a **CSOM String** is the number of characters in its value. The length of a **CSOM array** is the number of elements in the array.

ObjectPath Properties are properties of type CSOM Object as defined in [\[MS-CSOM\]](#) section 2.2.4.4, Scalar Properties are of properties of any type except of type CSOM Object as defined in [\[MS-CSOM\]](#) section 2.2.4 and [\[MS-CSOM\]](#) section 2.2.5

### 3.2 Server Details

#### 3.2.1 Abstract Data Model

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

This protocol deals with various structures associated with sites (2), lists (1), items, navigation, and other structures as specified in [\[MS-WSSTS\]](#).

##### 3.2.1.1 Parent Type

This protocol deals with various types that are logically derived from a parent type. The following table lists the relation between such types.

Parent Type	Derived Type(s)
<a href="#">3.2.5.118 Microsoft.SharePoint.Client.SecurableObject</a>	<a href="#">3.2.5.79</a> Microsoft.SharePoint.Client.List <a href="#">3.2.5.87</a> Microsoft.SharePoint.Client.ListItem <a href="#">3.2.5.143</a> Microsoft.SharePoint.Client.Web
<a href="#">3.2.5.37 Microsoft.SharePoint.Client.Field</a>	<a href="#">3.2.5.44</a> Microsoft.SharePoint.Client.FieldDateTime <a href="#">3.2.5.45</a> Microsoft.SharePoint.Client.FieldGuid <a href="#">3.2.5.49</a> Microsoft.SharePoint.Client.FieldLookup <a href="#">3.2.5.51</a> Microsoft.SharePoint.Client.FieldMultiChoice <a href="#">3.2.5.52</a> Microsoft.SharePoint.Client.FieldMultiLineText <a href="#">3.2.5.53</a> Microsoft.SharePoint.Client.FieldNumber <a href="#">3.2.5.57</a> Microsoft.SharePoint.Client.FieldText <a href="#">3.2.5.59</a> Microsoft.SharePoint.Client.FieldUrl
<a href="#">3.2.5.49 Microsoft.SharePoint.Client.FieldLookup</a>	<a href="#">3.2.5.61</a> Microsoft.SharePoint.Client.FieldUser
<a href="#">3.2.5.51 Microsoft.SharePoint.Client.FieldMultiChoice</a>	<a href="#">3.2.5.40</a> Microsoft.SharePoint.Client.FieldChoice



Parent Type	Derived Type(s)
<a href="#">3.2.5.53 Microsoft.SharePoint.Client.FieldNumber</a>	<a href="#">3.2.5.43</a> Microsoft.SharePoint.Client.FieldCurrency
<a href="#">3.2.5.50 Microsoft.SharePoint.Client.FieldLookupValue</a>	<a href="#">3.2.5.63</a> Microsoft.SharePoint.Client.FieldUserValue

### 3.2.1.2 Abstract Data Model for REST List Items Support

This section describes the relationship between the abstract data model as specified in [MS-WSSTS] section 2.1.2.7 and the Entity Data Model as specified in [MC-CSDL] section 1.0.<1> The mapping between Entity Data Model concepts and those of the AtomPub specification is specified in [MS-ODATA] section 2.2.1. The described relationship is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model, as long as their external behavior is consistent with the behavior specified in [MS-ODATA] and [MC-CSDL].

Data structures as specified in [MS-WSSTS] map to Entity Data Model terms as shown in the following table:

List Item Data Structure	Entity Data Model Term
List Item	<b>Entity</b>
<b>Lookup field</b>	<b>NavigationProperty</b>
Choice Field	<b>Multi-Value Property</b>
Attachments Field	<b>NavigationProperty</b>
ID Field	<b>EntityKey</b>
Content Type	<b>Entity</b>
All other fields of a list item	<b>NavigationProperty</b>

### 3.2.2 Timers

None.

### 3.2.3 Initialization

None.

### 3.2.4 Higher-Layer Triggered Events

None.

### 3.2.5 Message Processing Events and Sequencing Rules

#### 3.2.5.1 Microsoft.SharePoint.Client.AddFieldOptions

**ShortName:** SP.AddFieldOptions

**Flag:** true

Specifies the control settings while adding a **field (2)**.

Use of bitwise **AND**, **OR**, and **XOR** operators with this enumeration are acceptable.

### 3.2.5.1.1 Field Values

#### 3.2.5.1.1.1 DefaultValue

**Value:** 0

Specifies that no control settings were specified. The default behavior is that the new field (2) added to the list (1) MUST also be added to the default **content type** in the **site collection**.

#### 3.2.5.1.1.2 AddToDefaultContentType

**Value:** 1

Specifies that a new field (2) added to the list (1) MUST also be added to the default content type in the site collection.

#### 3.2.5.1.1.3 AddToNoContentType

**Value:** 2

Specifies that a new field (2) MUST NOT be added to any other content type.

#### 3.2.5.1.1.4 AddToAllContentTypes

**Value:** 4

Specifies that a new field (2) that is added to the specified list (1) MUST also be added to all content types in the site collection.

#### 3.2.5.1.1.5 AddFieldInternalNameHint

**Value:** 8

Specifies adding a **field internal name** hint for the purpose of avoiding possible database locking or field (2) renaming operations.

#### 3.2.5.1.1.6 AddFieldToDefaultView

**Value:** 16

Specifies that a new field (2) that is added to the specified list (1) MUST also be added to the default **list view**.

#### 3.2.5.1.1.7 AddFieldCheckDisplayName

**Value:** 32

Specifies to confirm that no other field (2) has the same **display name**.

### 3.2.5.2 Microsoft.SharePoint.Client.BasePermissions

**TypeId:** {DB780E5A-6BC6-41AD-8E64-9DFA761AFB6D}

**ShortName:** SP.BasePermissions

Specifies a set of built-in permissions.

### 3.2.5.2.1 Properties

#### 3.2.5.2.1.1 Scalar Properties

##### 3.2.5.2.1.1.1 High

**Type:** CSOM UInt32

**Accessibility:** Read/Write

Specifies the most-significant 32 bits of the **BasePermissions** uint. The following table indicates the significance of having a particular bit set. Bits are numbered 1 to 32 from right to left.

Bit Number	Permission Name	Explanation
5	<b>UseClientIntegration</b>	Enables user to launch client applications.
6	<b>UseRemoteAPIs</b>	Allow use of <b>Simple Object Access Protocol (SOAP)</b> , <b>WebDAV</b> , or <a href="#">[MS-FPSE]</a> to access the site (2).
7	<b>ManageAlerts</b>	Manage <b>alerts (1)</b> for all users of the site (2).
8	<b>CreateAlerts</b>	Create e-mail alerts (1).
9	<b>EditMyUserInfo</b>	Allows a user to change his or her user information, such as adding a picture.
31	<b>EnumeratePermissions</b>	Enumerate permissions on site (2), list (1), <b>folder</b> , document, or <b>list item</b> .

##### 3.2.5.2.1.1.2 Low

**Type:** CSOM UInt32

**Accessibility:** Read/Write

Specifies the least-significant 32 bits of the **BasePermissions** uint. The following table indicates the significance of having a particular bit set. Bits are numbered 1 to 32 from right to left.

Bit Number	Permission Name	Explanation
1	<b>ViewListItems</b>	View items in lists (1), documents in <b>document libraries</b> , and <b>Web discussion comments</b> .
2	<b>AddListItems</b>	Add items to lists (1), documents to document libraries, and <b>Web discussion</b> .
3	<b>EditListItems</b>	Edit items in lists (1), edit documents in document libraries, edit Web discussion comments in documents, and customize <b>Web Part Pages</b> in document libraries.

Bit Number	Permission Name	Explanation
4	<b>DeleteListItems</b>	Delete items from a list (1), documents from a document library, and Web discussion comments in documents.
5	<b>ApproveItems</b>	Approve a <b>minor version</b> of a list item or document.
6	<b>OpenItems</b>	View the source of documents with <b>file</b> handlers from the protocol server (2).
7	<b>ViewVersions</b>	View past <b>versions</b> of a list item or document.
8	<b>DeleteVersions</b>	Delete past versions of a list item or document.
9	<b>CancelCheckout</b>	Discard or check in a document that is <b>checked out</b> to another user.
10	<b>ManagePersonalViews</b>	Create, change, and delete <b>personal views</b> of lists (1).
12	<b>ManageLists</b>	Create and delete lists (1), add or remove columns in a list (1), and add or remove <b>public views</b> of a list (1).
13	<b>ViewFormPages</b>	View <b>forms (1)</b> , <b>views</b> , and application pages, and enumerate lists (1).
17	<b>Open</b>	Allow users to open a site (2), list (1), or folder to access items inside that container.
18	<b>ViewPages</b>	View pages in a site (2).
19	<b>AddAndCustomizePages</b>	Add, change, or delete <b>HTML</b> pages or Web Part Pages, and edit the site (2) by using a compatible editor.
20	<b>ApplyThemeAndBorder</b>	Apply a <b>theme</b> or borders to the entire site (2).
21	<b>ApplyStyleSheets</b>	Apply a style sheet (.css file) to the site (2).
22	<b>ViewUsageData</b>	View reports on site (2) usage.
23	<b>CreateSSCSite</b>	Create a site (2) by using the self-service site collection creation feature.
24	<b>ManageSubwebs</b>	Create <b>subsites</b> such as team sites (2), <b>Meeting Workspace sites</b> , and Document Workspace sites (2).
25	<b>CreateGroups</b>	Create a <b>group (2)</b> of users that can be used anywhere within the site collection.
26	<b>ManagePermissions</b>	Create and change <b>permission levels</b> on the site (2) and assign permissions to users and groups (2).
27	<b>BrowseDirectories</b>	Enumerate files and folders in a site (2) by using <a href="#">[MS-FPSE]</a> and WebDAV interfaces.
28	<b>BrowseUserInfo</b>	View information about users of the site (2).
29	<b>AddDelPrivateWebParts</b>	Add or remove personal <b>Web Parts</b> on a Web Part Page.
30	<b>UpdatePersonalWebParts</b>	Update Web Parts to display personalized information.

Bit Number	Permission Name	Explanation
31	<b>ManageWeb</b>	Grant the ability for a <b>site collection administrator</b> to perform all administration tasks (2) for the site (2) as well as manage content, activate, deactivate, or edit properties of site (2) scoped features through the <b>object (3)</b> model or through the user interface (UI).

### 3.2.5.2.1.2 ObjectPath Properties

None.

### 3.2.5.3 Microsoft.SharePoint.Client.BaseType

**ShortName:** SP.BaseType

**Flag:** false

Specified in [\[MS-WSSTS\]](#) section 2.5.

#### 3.2.5.3.1 Field Values

##### 3.2.5.3.1.1 None

**Value:** -1

Specifies that no **base type** is specified.

##### 3.2.5.3.1.2 GenericList

**Value:** 0

Specifies a base type for lists (1) that do not correspond to another base type in this enumeration.

##### 3.2.5.3.1.3 DocumentLibrary

**Value:** 1

Specifies a base type for a document library.

##### 3.2.5.3.1.4 Unused

**Value:** 2

Reserved. MUST NOT be used.

##### 3.2.5.3.1.5 DiscussionBoard

**Value:** 3

Specifies a base type that SHOULD NOT be used, but MAY [<2>](#) be used for a **discussion board**.

### 3.2.5.3.1.6 Survey

**Value:** 4

Specifies a base type for a **survey list**.

### 3.2.5.3.1.7 Issue

**Value:** 5

Specifies a base type for an issue tracking list (1).

## 3.2.5.4 Microsoft.SharePoint.Client.BrowserFileHandling

**ShortName:** SP.BrowserFileHandling

**Flag:** false

Specifies whether the file is allowed to be displayed in the web browser.

### 3.2.5.4.1 Field Values

#### 3.2.5.4.1.1 Permissive

**Value:** 0

Specifies that content-types that allow script are allowed to be displayed in the Web browser.

#### 3.2.5.4.1.2 Strict

**Value:** 1

Specifies that content-types that allow script MUST be forced to download.

## 3.2.5.5 Microsoft.SharePoint.Client.CalendarType

**ShortName:** SP.CalendarType

**Flag:** false

As specified in [\[MS-WSSFO2\]](#) section 2.2.3.3.

### 3.2.5.5.1 Field Values

#### 3.2.5.5.1.1 None

**Value:** 0

Specifies that the **calendar type** is not specified.

#### 3.2.5.5.1.2 Gregorian

**Value:** 1

Specifies a Gregorian (localized) calendar type.

### **3.2.5.5.1.3 Japan**

**Value:** 3

Specifies a Japanese Emperor Era calendar type.

### **3.2.5.5.1.4 Taiwan**

**Value:** 4

Specifies a Year of Taiwan calendar type.

### **3.2.5.5.1.5 Korea**

**Value:** 5

Specifies a Korean Tangun Era calendar type.

### **3.2.5.5.1.6 Hijri**

**Value:** 6

Specifies a Hijri (Arabic Lunar) calendar type.

### **3.2.5.5.1.7 Thai**

**Value:** 7

Specifies a Thai calendar type.

### **3.2.5.5.1.8 Hebrew**

**Value:** 8

Specifies a Hebrew (Lunar) calendar type.

### **3.2.5.5.1.9 GregorianMEFrench**

**Value:** 9

Specifies a Gregorian (Middle East French) calendar type.

### **3.2.5.5.1.10 GregorianArabic**

**Value:** 10

Specifies a Gregorian (Arabic) calendar type.

### **3.2.5.5.1.11 GregorianXLITEnglish**

**Value:** 11

Specifies a Gregorian (transliterated English) calendar type.

### 3.2.5.5.1.12 GregorianXLITFrench

**Value:** 12

Specifies a Gregorian (transliterated French) calendar type.

### 3.2.5.5.1.13 KoreaJapanLunar

**Value:** 14

Specifies a Korean and Japanese Lunar calendar type.

### 3.2.5.5.1.14 ChineseLunar

**Value:** 15

Specifies a Chinese Lunar calendar type.

### 3.2.5.5.1.15 SakaEra

**Value:** 16

Specifies a Saka Era calendar type.

### 3.2.5.5.1.16 UmAlQura

**Value:** 23

Specifies an Umm al-Qura calendar type. [<3>](#)

## 3.2.5.6 Microsoft.SharePoint.Client.CamlQuery

**TypeId:** {3D248D7B-FC86-40A3-AA97-02A75D69FB8A}

**ShortName:** SP.CamlQuery

Specifies a **query** on a list (1).

### 3.2.5.6.1 Properties

#### 3.2.5.6.1.1 Scalar Properties

##### 3.2.5.6.1.1.1 DatesInUtc

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the query returns dates in **Coordinated Universal Time (UTC)** format.

##### 3.2.5.6.1.1.2 FolderServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read/Write



Specifies the **server-relative URL** of a **list folder** from which results are to be returned.

It MUST be a URL of server-relative form.

#### 3.2.5.6.1.1.3 ListItemCollectionPosition

**Type:** Microsoft.SharePoint.Client.ListItemCollectionPosition

**Accessibility:** Read/Write

Specifies the information required to get the next page of data for the list view.

#### 3.2.5.6.1.1.4 ViewXml

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **XML schema** that defines the list view.

It MUST be NULL, empty, or an **XML fragment** that conforms to the **ViewDefinition** type as defined in [\[MS-WSSCAML\]](#) section 2.3.2.17.

#### 3.2.5.6.1.2 ObjectPath Properties

None.

#### 3.2.5.7 Microsoft.SharePoint.Client.Change

**TypeId:** {C717121B-F82F-4AFB-A2B7-25F67522120F}

**ShortName:** SP.Change

Specifies a base type for a change to an object (1).

##### 3.2.5.7.1 Properties

##### 3.2.5.7.1.1 Scalar Properties

###### 3.2.5.7.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

Specifies a **change token** that identifies the changed object (1).

###### 3.2.5.7.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

Specifies the type of the change that has been made to the object (1).

### 3.2.5.7.1.1.3 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifiers of the site (2) that contains the changed object (1).

### 3.2.5.7.1.1.4 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the time that the object (1) was modified. This can be different than the time that the change was committed to the **change log**.

### 3.2.5.7.1.2 ObjectPath Properties

None.

### 3.2.5.7.2 Methods

#### 3.2.5.7.2.1 Scalar Methods

None.

#### 3.2.5.7.2.2 ObjectPath Methods

None.

### 3.2.5.8 Microsoft.SharePoint.Client.ChangeAlert

**TypeId:** {04F51EF5-013C-4E05-B23F-A9719E69A49A}

**ShortName:** SP.ChangeAlert

Specifies a change from an alert (1).

#### 3.2.5.8.1 Properties

##### 3.2.5.8.1.1 Scalar Properties

###### 3.2.5.8.1.1.1 AlertId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the changed alert (1).

###### 3.2.5.8.1.1.2 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

### 3.2.5.8.1.1.3 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

### 3.2.5.8.1.1.4 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

### 3.2.5.8.1.1.5 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

### 3.2.5.8.1.1.6 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed alert (1).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The <b>site identifier</b> in the change fields (2) item of the change collection is NULL.

### 3.2.5.8.1.2 ObjectPath Properties

None.

### 3.2.5.8.2 Methods

#### 3.2.5.8.2.1 Scalar Methods

None.

### 3.2.5.8.2.2 ObjectPath Methods

None.

### 3.2.5.9 Microsoft.SharePoint.Client.ChangeCollection

**TypeId:** {2BA7A459-EEDA-42D0-90E2-FAD3487AD0D3}

**ShortName:** SP.ChangeCollection

Represents a collection of **Change** objects (1).

#### 3.2.5.9.1 Properties

##### 3.2.5.9.1.1 Scalar Properties

None.

##### 3.2.5.9.1.2 ObjectPath Properties

None.

#### 3.2.5.9.2 Methods

##### 3.2.5.9.2.1 Scalar Methods

None.

##### 3.2.5.9.2.2 ObjectPath Methods

None.

### 3.2.5.10 Microsoft.SharePoint.Client.ChangeContentType

**TypeId:** {B50EF7A3-7F78-4AFC-91EF-616591DE9E4D}

**ShortName:** SP.ChangeContentType

Specifies a change on a content type.

#### 3.2.5.10.1 Properties

##### 3.2.5.10.1.1 Scalar Properties

###### 3.2.5.10.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Chang.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

###### 3.2.5.10.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

### 3.2.5.10.1.1.3 ContentTypeId

**Type:** Microsoft.SharePoint.Client.ContentTypeId

**Accessibility:** Read Only

Identifies the content type that has changed.

### 3.2.5.10.1.1.4 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

### 3.2.5.10.1.1.5 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

### 3.2.5.10.1.1.6 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed content type.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the change collection is NULL.

### 3.2.5.10.1.2 ObjectPath Properties

None.

### 3.2.5.10.2 Methods

#### 3.2.5.10.2.1 Scalar Methods

None.

### 3.2.5.10.2.2 ObjectPath Methods

None.

### 3.2.5.11 Microsoft.SharePoint.Client.ChangeField

**TypeId:** {8D687151-6601-4AD0-9E94-91448E3E2749}

**ShortName:** SP.ChangeField

Specifies a change on a field (2).

#### 3.2.5.11.1 Properties

##### 3.2.5.11.1.1 Scalar Properties

###### 3.2.5.11.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

###### 3.2.5.11.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

###### 3.2.5.11.1.1.3 FieldId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the changed field (2).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The <b>field identifier</b> in the change fields (2) item of the change collection is NULL.

###### 3.2.5.11.1.1.4 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

### 3.2.5.11.1.1.5 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.Change.Time, as specified in section [3.2.5.7.1.1.4](#).

### 3.2.5.11.1.1.6 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed field (2).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the change collection is NULL.

### 3.2.5.11.1.2 ObjectPath Properties

None.

### 3.2.5.11.2 Methods

#### 3.2.5.11.2.1 Scalar Methods

None.

#### 3.2.5.11.2.2 ObjectPath Methods

None.

### 3.2.5.12 Microsoft.SharePoint.Client.ChangeFile

**TypeId:** {59DD36EB-9235-4DAD-A8FD-26D3C11A6A18}

**ShortName:** SP.ChangeFile

Specifies a change on a file not contained in a document library.

### 3.2.5.12.1 Properties

#### 3.2.5.12.1.1 Scalar Properties

##### 3.2.5.12.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

### 3.2.5.12.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

### 3.2.5.12.1.1.3 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

### 3.2.5.12.1.1.4 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

### 3.2.5.12.1.1.5 UniqueId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the file that changed.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The <b>document identifier (2)</b> in the change fields (2) item of the change collection is NULL.

### 3.2.5.12.1.1.6 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed file.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the



Error Code	Error Type Name	Condition
		change collection is NULL.

### 3.2.5.12.1.2 ObjectPath Properties

None.

### 3.2.5.12.2 Methods

#### 3.2.5.12.2.1 Scalar Methods

None.

#### 3.2.5.12.2.2 ObjectPath Methods

None.

### 3.2.5.13 Microsoft.SharePoint.Client.ChangeFolder

**TypeId:** {3B97573D-CEE5-446A-853D-57EA0ACF8AA4}

**ShortName:** SP.ChangeFolder

Specifies a change on a folder not contained in a list (1) or document library.

#### 3.2.5.13.1 Properties

##### 3.2.5.13.1.1 Scalar Properties

###### 3.2.5.13.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

###### 3.2.5.13.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

###### 3.2.5.13.1.1.3 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

#### 3.2.5.13.1.1.4 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

#### 3.2.5.13.1.1.5 UniqueId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the folder that has changed.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The document identifier (2) in the change fields (2) item of the change collection is NULL.

#### 3.2.5.13.1.1.6 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed folder.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the change collection is NULL.

#### 3.2.5.13.1.2 ObjectPath Properties

None.

#### 3.2.5.13.2 Methods

##### 3.2.5.13.2.1 Scalar Methods

None.

##### 3.2.5.13.2.2 ObjectPath Methods

None.

### 3.2.5.14 Microsoft.SharePoint.Client.ChangeGroup

**TypeId:** {8C377687-4E62-4DDB-B244-20A832DE16DD}

**ShortName:** SP.ChangeGroup

Specifies a change on a group (2).

#### 3.2.5.14.1 Properties

##### 3.2.5.14.1.1 Scalar Properties

###### 3.2.5.14.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

###### 3.2.5.14.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

###### 3.2.5.14.1.1.3 GroupId

**Type:** CSOM Int32

**Accessibility:** Read Only

Identifies the changed group (2).

###### 3.2.5.14.1.1.4 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

###### 3.2.5.14.1.1.5 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

##### 3.2.5.14.1.2 ObjectPath Properties

None.

## 3.2.5.14.2 Methods

### 3.2.5.14.2.1 Scalar Methods

None.

### 3.2.5.14.2.2 ObjectPath Methods

None.

## 3.2.5.15 Microsoft.SharePoint.Client.ChangeItem

**TypeId:** {3E4716AC-A622-4D48-BC14-3FECABD52E21}

**ShortName:** SP.ChangeItem

Specifies a change on an item.

### 3.2.5.15.1 Properties

#### 3.2.5.15.1.1 Scalar Properties

##### 3.2.5.15.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

##### 3.2.5.15.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

##### 3.2.5.15.1.1.3 ItemId

**Type:** CSOM Int32

**Accessibility:** Read Only

Identifies the changed item.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The <b>item identifier</b> in the change fields (2) item of the change collection is NULL.

#### 3.2.5.15.1.1.4 ListId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the list (1) that contains the changed item. In the case of a change that includes moving the item between lists (1), **ListId** MUST contain the value it had before the move.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The <b>list identifier</b> in the change fields (2) item of the change collection is NULL.

#### 3.2.5.15.1.1.5 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

#### 3.2.5.15.1.1.6 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

#### 3.2.5.15.1.1.7 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed item.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the change collection is NULL.

#### 3.2.5.15.1.2 ObjectPath Properties

None.

## 3.2.5.15.2 Methods

### 3.2.5.15.2.1 Scalar Methods

None.

### 3.2.5.15.2.2 ObjectPath Methods

None.

## 3.2.5.16 Microsoft.SharePoint.Client.ChangeList

**TypeId:** {D3EF3368-FF71-4DE1-867C-19693C781587}

**ShortName:** SP.ChangeList

Specifies a change on a list (1).

### 3.2.5.16.1 Properties

#### 3.2.5.16.1.1 Scalar Properties

##### 3.2.5.16.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

##### 3.2.5.16.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

##### 3.2.5.16.1.1.3 ListId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the changed list (1).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list identifier contained in the change fields (2) item of the change collection is NULL.

#### 3.2.5.16.1.1.4 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

#### 3.2.5.16.1.1.5 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

#### 3.2.5.16.1.1.6 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed list (1).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the change collection is NULL.

#### 3.2.5.16.1.2 ObjectPath Properties

None.

#### 3.2.5.16.2 Methods

##### 3.2.5.16.2.1 Scalar Methods

None.

##### 3.2.5.16.2.2 ObjectPath Methods

None.

#### 3.2.5.17 Microsoft.SharePoint.Client.ChangeQuery

**TypeId:** {887A7218-1232-4CFC-B78F-88D54E9D8EC7}

**ShortName:** SP.ChangeQuery

Specifies a query that is performed against the change log.

### **3.2.5.17.1 Properties**

#### **3.2.5.17.1.1 Scalar Properties**

##### **3.2.5.17.1.1.1 Add**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether add changes are included in the query.

##### **3.2.5.17.1.1.2 Alert**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to alerts (1) are included in the query.

##### **3.2.5.17.1.1.3 ChangeTokenEnd**

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read/Write

Specifies the end date and end time for changes that are returned through the query.

##### **3.2.5.17.1.1.4 ChangeTokenStart**

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read/Write

Specifies the start date and start time for changes that are returned through the query.

##### **3.2.5.17.1.1.5 ContentType**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to content types are included in the query.

##### **3.2.5.17.1.1.6 DeleteObject**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether delete changes are included in the query.

##### **3.2.5.17.1.1.7 Field**

**Type:** CSOM Boolean



**Accessibility:** Read/Write

Specifies whether changes to **site columns** are included in the query.

#### **3.2.5.17.1.1.8 File**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to files are included in the query.

#### **3.2.5.17.1.1.9 Folder**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to folders are included in the query.

#### **3.2.5.17.1.1.10 Group**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to groups (2) are included in the query.

#### **3.2.5.17.1.1.11 GroupMembershipAdd**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether adding users to groups (2) is included in the query.

#### **3.2.5.17.1.1.12 GroupMembershipDelete**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether deleting users from groups (2) is included in the query.

#### **3.2.5.17.1.1.13 Item**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to list items or other objects (1) in a site (2) are included in the query.

#### **3.2.5.17.1.1.14 List**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to lists (1) are included in the query.

#### **3.2.5.17.1.1.15 Move**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether move changes are included in the query.

#### **3.2.5.17.1.1.16 Navigation**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to the navigation structure of a site collection are included in the query.

#### **3.2.5.17.1.1.17 Rename**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether renaming changes are included in the query.

#### **3.2.5.17.1.1.18 Restore**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether restoring items from the **Recycle Bin** or from backups is included in the query.

#### **3.2.5.17.1.1.19 RoleAssignmentAdd**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether adding **role assignments** is included in the query.

#### **3.2.5.17.1.1.20 RoleAssignmentDelete**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether deleting role assignments is included in the query.

#### **3.2.5.17.1.1.21 RoleDefinitionAdd**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether adding **role definitions** is included in the query.

### 3.2.5.17.1.1.22 RoleDefinitionDelete

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether deleting role definitions is included in the query.

### 3.2.5.17.1.1.23 RoleDefinitionUpdate

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether modifying role definitions is included in the query.

### 3.2.5.17.1.1.24 SecurityPolicy

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether modifications to **security policies** are included in the query.

### 3.2.5.17.1.1.25 Site

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to site collections are included in the query.

### 3.2.5.17.1.1.26 SystemUpdate

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether updates implicitly made by the protocol server (2) method are included in the query.

### 3.2.5.17.1.1.27 Update

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether update changes are included in the query.

### 3.2.5.17.1.1.28 User

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to users are included in the query.

### 3.2.5.17.1.1.29 View

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to views are included in the query.

### 3.2.5.17.1.1.30 Web

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to sites (2) are included in the query.

### 3.2.5.17.1.2 ObjectPath Properties

None.

### 3.2.5.18 Microsoft.SharePoint.Client.ChangeSite

**TypeId:** {81AFF0DE-302E-4D01-91D5-96192F77BC29}

**ShortName:** SP.ChangeSite

Specifies a change on a site collection.

#### 3.2.5.18.1 Properties

##### 3.2.5.18.1.1 Scalar Properties

###### 3.2.5.18.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#)

###### 3.2.5.18.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

###### 3.2.5.18.1.1.3 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

#### 3.2.5.18.1.1.4 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

#### 3.2.5.18.1.2 ObjectPath Properties

None.

#### 3.2.5.18.2 Methods

##### 3.2.5.18.2.1 Scalar Methods

None.

##### 3.2.5.18.2.2 ObjectPath Methods

None.

#### 3.2.5.19 Microsoft.SharePoint.Client.ChangeToken

**TypeId:** {41C5BE82-B5BF-4B5A-9712-97111FB87686}

**ShortName:** SP.ChangeToken

Represents the unique sequential location of a change within the change log. Client applications can use the change token as a starting point for retrieving changes.

##### 3.2.5.19.1 Properties

###### 3.2.5.19.1.1 Scalar Properties

###### 3.2.5.19.1.1.1 StringValue

**Type:** CSOM String

**Accessibility:** Read/Write

Contains the serialized representation of the change token generated by the protocol server (2). When setting **StringValue**, the protocol client MUST use a value previously returned by the protocol server (2).

Represented as a semicolon-separated list containing the following, in order:

1. The version number of the change token.
2. The change token's collection scope.
3. The collection scope **GUID**.
4. The time of the change token in **DateTime** ticks.
5. The change number.

The collection scope MUST be one of the values listed in the following table.

Value	Description
0	The change token refers to a <b>content database</b> .
1	The change token refers to a site collection.
2	The change token refers to a site (2).
3	The change token refers to a list (1).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.FormatException	Input string for any of the 5 sections in the change token is not in a correct format. This could happen if the first, second, fourth or fifth section doesn't have a string representation for number, or the third section doesn't have a string representation for a CSOM GUID that contains 32 digits with 4 dashes {xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx}.
-1	System.InvalidOperationException	The number of semicolon separated tokens is not 5, or the version number for the first token value is not 1.
-1	System.OverflowException	Input string for the first or second section is either too large or too small for a CSOM Int32. Input string for the fourth or fifth section is either too large or too small for a CSOM Int64.

**3.2.5.19.1.2 ObjectPath Properties**

None.

**3.2.5.20 Microsoft.SharePoint.Client.ChangeType**

**ShortName:** SP.ChangeType

**Flag:** false

Enumeration of the possible types of changes.

**3.2.5.20.1 Field Values**

**3.2.5.20.1.1 NoChange**

**Value:** 0

Indicates that no change has taken place.

**3.2.5.20.1.2 Add**

**Value:** 1

Specifies that an object (1) has been added within the scope of a list (1), site (2), site collection, or content database.

#### **3.2.5.20.1.3 Update**

**Value:** 2

Specifies that an object (1) has been modified within the scope of a list (1), site (2), site collection, or content database.

#### **3.2.5.20.1.4 DeleteObject**

**Value:** 3

Specifies that an object (1) has been deleted within the scope of a list (1), site (2), site collection, or content database.

#### **3.2.5.20.1.5 Rename**

**Value:** 4

The leaf in a URL has been renamed.

#### **3.2.5.20.1.6 MoveAway**

**Value:** 5

Specifies that a non-leaf segment within a URL has been renamed. The object (1) was moved away from the location within the site (2) specified by the change.

#### **3.2.5.20.1.7 MoveInto**

**Value:** 6

Specifies that a non-leaf segment within a URL has been renamed. The object (1) was moved into the location within the site (2) specified by the change.

#### **3.2.5.20.1.8 Restore**

**Value:** 7

Specifies that an object (1) has restored from a backup or from the Recycle Bin.

#### **3.2.5.20.1.9 RoleAdd**

**Value:** 8

Specifies that a role definition has been added.

#### **3.2.5.20.1.10 RoleDelete**

**Value:** 9

Specifies that a role definition has been deleted.

### **3.2.5.20.1.11 RoleUpdate**

**Value:** 10

Specifies that a role definition has been updated.

### **3.2.5.20.1.12 AssignmentAdd**

**Value:** 11

Specifies that a user has been given permissions to a list (1). The list (1) MUST have different permissions from its parent.

### **3.2.5.20.1.13 AssignmentDelete**

**Value:** 12

Specifies that a user has lost permissions to a list (1). The list (1) MUST have different permissions from its parent.

### **3.2.5.20.1.14 MemberAdd**

**Value:** 13

Specifies that a user has been added to a group (2).

### **3.2.5.20.1.15 MemberDelete**

**Value:** 14

Specifies that a user has been removed from a group (2).

### **3.2.5.20.1.16 SystemUpdate**

**Value:** 15

Specifies that a change has been made to an item by using the protocol server (2) method.

### **3.2.5.20.1.17 Navigation**

**Value:** 16

Specifies that a change in the navigation structure of a site collection has been made.

### **3.2.5.20.1.18 ScopeAdd**

**Value:** 17

Specifies that a change in permissions scope has been made to break inheritance from the parent of an object (1).

### **3.2.5.20.1.19 ScopeDelete**

**Value:** 18



Specifies that a change in permissions scope has been made to revert back to inheriting permissions from the parent of an object (1).

### **3.2.5.20.1.20 ListContentTypeAdd**

**Value:** 19

Specifies that a list (1) content type has been added.

### **3.2.5.20.1.21 ListContentTypeDelete**

**Value:** 20

Specifies that a list (1) content type has been deleted.

### **3.2.5.21 Microsoft.SharePoint.Client.ChangeUser**

**TypeId:** {9BCB7ADB-5A47-426E-886F-3CE841554CD9}

**ShortName:** SP.ChangeUser

Specifies a change on a user.

#### **3.2.5.21.1 Properties**

##### **3.2.5.21.1.1 Scalar Properties**

###### **3.2.5.21.1.1.1 Activate**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether a user has changed from an inactive state to an active state.

When a user is added to a site (2) and only has browse permissions, the user is in an inactive state. However, once the user can author list items, add documents, be assigned tasks (2), or make any contribution to the site (2), the user is in an active state.

###### **3.2.5.21.1.1.2 ChangeToken**

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

###### **3.2.5.21.1.1.3 ChangeType**

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

#### 3.2.5.21.1.1.4 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

#### 3.2.5.21.1.1.5 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

#### 3.2.5.21.1.1.6 UserId

**Type:** CSOM Int32

**Accessibility:** Read Only

Uniquely identifies the changed user.

#### 3.2.5.21.1.2 ObjectPath Properties

None.

#### 3.2.5.21.2 Methods

##### 3.2.5.21.2.1 Scalar Methods

None.

##### 3.2.5.21.2.2 ObjectPath Methods

None.

#### 3.2.5.22 Microsoft.SharePoint.Client.ChangeView

**TypeId:** {865F3490-F526-4452-88E2-6E33357BAE50}

**ShortName:** SP.ChangeView

Specifies a change on a view.

##### 3.2.5.22.1 Properties

###### 3.2.5.22.1.1 Scalar Properties

###### 3.2.5.22.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

### 3.2.5.22.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

### 3.2.5.22.1.1.3 ListId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the list (1) that contains the changed view.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list identifier in the change fields (2) item of the change collection is NULL.

### 3.2.5.22.1.1.4 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

### 3.2.5.22.1.1.5 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

### 3.2.5.22.1.1.6 ViewId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the changed view.

### 3.2.5.22.1.1.7 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that contains the changed view.

## Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the change collection is NULL.

### 3.2.5.22.1.2 ObjectPath Properties

None.

### 3.2.5.22.2 Methods

#### 3.2.5.22.2.1 Scalar Methods

None.

#### 3.2.5.22.2.2 ObjectPath Methods

None.

### 3.2.5.23 Microsoft.SharePoint.Client.ChangeWeb

**TypeId:** {E7FA8647-BDE1-474C-93B1-1EF9CE5CF02C}

**ShortName:** SP.ChangeWeb

Specifies a change on a site (2).

#### 3.2.5.23.1 Properties

##### 3.2.5.23.1.1 Scalar Properties

###### 3.2.5.23.1.1.1 ChangeToken

**Type:** Microsoft.SharePoint.Client.ChangeToken

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeToken**, as specified in section [3.2.5.7.1.1.1](#).

###### 3.2.5.23.1.1.2 ChangeType

**Type:** Microsoft.SharePoint.Client.ChangeType

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.ChangeType**, as specified in section [3.2.5.7.1.1.2](#).

###### 3.2.5.23.1.1.3 SiteId

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#).

#### 3.2.5.23.1.1.4 Time

**Type:** CSOM DateTime

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#).

#### 3.2.5.23.1.1.5 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Identifies the site (2) that has changed.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The site identifier in the change fields (2) item of the change collection is NULL.

#### 3.2.5.23.1.2 ObjectPath Properties

None.

#### 3.2.5.23.2 Methods

##### 3.2.5.23.2.1 Scalar Methods

None.

##### 3.2.5.23.2.2 ObjectPath Methods

None.

#### 3.2.5.24 Microsoft.SharePoint.Client.CheckinType

**ShortName:** SP.CheckinType

**Flag:** false

Specifies the type of check-in for a file.

##### 3.2.5.24.1 Field Values

###### 3.2.5.24.1.1 MinorCheckIn

**Value:** 0

Incremented as a minor version. Value=0.

### 3.2.5.24.1.2 MajorCheckIn

**Value:** 1

Incremented as a **major version**. Value=1.

### 3.2.5.24.1.3 OverwriteCheckIn

**Value:** 2

Overwrite the file. Value=2.

### 3.2.5.25 Microsoft.SharePoint.Client.CheckOutType

**ShortName:** SP.CheckOutType

**Flag:** false

Specifies the different checked out states for the file, independent of any lock state.

#### 3.2.5.25.1 Field Values

##### 3.2.5.25.1.1 Online

**Value:** 0

Specifies that the file is checked out on the server (2).

##### 3.2.5.25.1.2 Offline

**Value:** 1

Specifies that the file is checked out to the client computer.

##### 3.2.5.25.1.3 None

**Value:** 2

Specifies that the file is not checked out.

### 3.2.5.26 Microsoft.SharePoint.Client.ChoiceFormatType

**ShortName:** SP.ChoiceFormatType

**Flag:** false

Specifies how to display options in a choice field (2) when displayed in a form (1).

#### 3.2.5.26.1 Field Values

##### 3.2.5.26.1.1 Dropdown

**Value:** 0

Specifies that options are displayed in a drop-down list box.

### 3.2.5.26.1.2 RadioButtons

**Value:** 1

Specifies that options are displayed as a list of radio buttons.

### 3.2.5.27 Microsoft.SharePoint.Client.ContentType

**TypeId:** {91B5BD2D-E133-486F-B727-197CE5EB2C0D}

**ShortName:** SP.ContentType

Specifies a content type.

#### 3.2.5.27.1 Properties

##### 3.2.5.27.1.1 Scalar Properties

###### 3.2.5.27.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description of the content type.

It MUST NOT be NULL.

###### 3.2.5.27.1.1.2 DisplayFormTemplateName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of a custom **display form** template to use for list items that have been assigned the content type.

###### 3.2.5.27.1.1.3 DisplayFormUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL of a custom display form to use for list items that have been assigned the content type.

###### 3.2.5.27.1.1.4 DocumentTemplate

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the file path to the **document template (1)** used for a new list item that has been assigned the content type.

It MUST NOT be NULL. It MUST be either an **absolute URL**, a server-relative URL, or a URL relative to the content type **resource folder** for the content type

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575338	Microsoft.SharePoint.SPException	List (1) is not found or has been deleted

### 3.2.5.27.1.1.5 DocumentTemplateUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL of the document template (1) assigned to the content type.

### 3.2.5.27.1.1.6 EditFormTemplateName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of a custom **edit form template** to use for list items that have been assigned the content type.

### 3.2.5.27.1.1.7 EditFormUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL of a custom edit form to use for list items that have been assigned the content type.

### 3.2.5.27.1.1.8 Group

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **content type group** for the content type.

It MUST NOT be empty. Its length MUST be equal to or less than 128.

### 3.2.5.27.1.1.9 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the content type is unavailable for creation or usage directly from a user interface.

### 3.2.5.27.1.1.10 Id

**Type:** Microsoft.SharePoint.Client.ContentTypeId



**Accessibility:** Read Only

Specifies an identifier for the content type as specified in [\[MS-WSSTS\]](#) section 2.1.2.8.1.

#### **3.2.5.27.1.1.11 Name**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the content type.

It MUST NOT be NULL.

#### **3.2.5.27.1.1.12 NewFormTemplateName**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of a custom **new form** template to use for list items that have been assigned the content type.

#### **3.2.5.27.1.1.13 NewFormUrl**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL of a custom new form to use for list items that have been assigned the content type.

#### **3.2.5.27.1.1.14 ReadOnly**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether changes to the content type properties are denied.

#### **3.2.5.27.1.1.15 SchemaXml**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the XML schema that represents the content type.

#### **3.2.5.27.1.1.16 Scope**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies a server-relative path to the content type scope of the content type.

### 3.2.5.27.1.1.17 JSLink

**Type:** CSOM String

**Accessibility:** Read/Write

Gets or sets the JSLink for the content type custom form template. <4>

### 3.2.5.27.1.1.18 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Sealed <5>

### 3.2.5.27.1.1.19 StringId

**Type:** CSOM String

**Accessibility:** Read Only

## 3.2.5.27.1.2 ObjectPath Properties

### 3.2.5.27.1.2.1 FieldLinks

**Type:** Microsoft.SharePoint.Client.FieldLinkCollection

**Accessibility:** Read Only

Specifies the collection of **field links** for the content type.

### 3.2.5.27.1.2.2 Fields

**Type:** Microsoft.SharePoint.Client.FieldCollection

**Accessibility:** Read Only

Specifies the collection of fields (2) for the content type.

### 3.2.5.27.1.2.3 Parent

**Type:** Microsoft.SharePoint.Client.ContentType

**Accessibility:** Read Only

Specifies the parent content type of the content type.

### 3.2.5.27.1.2.4 WorkflowAssociations

**Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCollection

**Accessibility:** Read Only

Specifies the collection of **workflow associations** for the content type.

### 3.2.5.27.2 Methods

#### 3.2.5.27.2.1 Scalar Methods

##### 3.2.5.27.2.1.1 DeleteObject

**Return Type:** None

Deletes the content type.

**Parameters:** None

##### 3.2.5.27.2.1.2 Update

**Return Type:** None

Updates the content type, and any **child** objects (1) of the content type if specified, with any changes made to the content type.

**Parameters:**

*updateChildren*: Specifies whether changes propagate to child objects (1) of the content type.

Type: CSOM Boolean

#### 3.2.5.27.2.2 ObjectPath Methods

None.

### 3.2.5.28 Microsoft.SharePoint.Client.ContentTypeCollection

**TypeId:** {653E9412-6245-4A3F-829B-CFDBF7FD86A5}

**ShortName:** SP.ContentTypeCollection

Represents a collection of content types.

#### 3.2.5.28.1 Properties

##### 3.2.5.28.1.1 Scalar Properties

None.

##### 3.2.5.28.1.2 ObjectPath Properties

None.

#### 3.2.5.28.2 Methods

##### 3.2.5.28.2.1 Scalar Methods

None.

### 3.2.5.28.2.2 ObjectPath Methods

#### 3.2.5.28.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.ContentType

Adds a new content type to the collection and returns a **reference (3)** to the added SP.ContentType.

**Parameters:**

*parameters:* Specifies properties that is to be used to construct the new content type.

Type: Microsoft.SharePoint.Client.ContentTypeCreationInformation

It MUST NOT be NULL. The content type scope of its *ParentContentType* property, as specified in section [3.2.5.29.1.2.1](#) MUST NOT be an ancestor of the parent (the SP.List or SP.Web that this collection is attached to) of the content type collection.

**Exceptions:**

Error Code	Error Type Name	Condition
183	Microsoft.SharePoint.SPException	A content type with a name specified by the <b>Name</b> property of <i>parameters</i> exists in the collection.

#### 3.2.5.28.2.2.2 AddExistingContentType

**Return Type:** Microsoft.SharePoint.Client.ContentType

Adds an existing content type to the collection. The name of the given content type MUST NOT be the same as any of the content types in the collection. A reference (3) to the SP.ContentType that was added is returned.

**Parameters:**

*contentType:* Specifies the content type to be added to the collection.

Type: Microsoft.SharePoint.Client.ContentType

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
183	Microsoft.SharePoint.SPException	A content type with same name as the given content type exists in the collection.

#### 3.2.5.28.2.2.3 GetById

**Return Type:** Microsoft.SharePoint.Client.ContentType

Returns the content type with the given identifier from the collection. If a content type with the given identifier is not found in the collection, the server (2) MUST return null.

**Parameters:**

*contentTypeId*: A hexadecimal value representing the identifier of a content type.

Type: CSOM String

It MUST NOT be NULL.

It MUST conform to the following ABNF as defined in [\[RFC5234\]](#):

nonzero-digit = "1" / "2" / "3" / "4" / "5" / "6" / "7" / "8" / "9"

digit = "0" / nonzero-digit

nonzero-hexdigit = nonzero-digit / "A" / "B" / "C" / "D" / "E" / "F"

hexdigit = "0" / nonzero-hexdigit

id = \*(nonzero-hexdigit hexdigit / "0" nonzero-hexdigit)

parentids = \*(16(hexdigit hexdigit))

contentTypeId = id [ "00" parentids]

### 3.2.5.29 Microsoft.SharePoint.Client.ContentTypeCreationInformation

**TypeId:** {168F3091-4554-4F14-8866-B20D48E45B54}

**ShortName:** SP.ContentTypeCreationInformation

Specifies properties that are used as parameters to initialize a new content type.

#### 3.2.5.29.1 Properties

##### 3.2.5.29.1.1 Scalar Properties

###### 3.2.5.29.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description of the content type to be constructed.

###### 3.2.5.29.1.1.2 Group

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the content type group of the content type to be constructed.

Its length MUST be equal to or greater than 1. Its length MUST be equal to or less than 128.

### 3.2.5.29.1.1.3 Name

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the content type to be constructed.

It MUST NOT be NULL.

### 3.2.5.29.1.2 ObjectPath Properties

#### 3.2.5.29.1.2.1 ParentContentType

**Type:** Microsoft.SharePoint.Client.ContentType

**Accessibility:** Read/Write

Specifies the parent content type for the content type to be constructed.

The list (1) the parent content type belongs to MUST be null.

### 3.2.5.30 Microsoft.SharePoint.Client.ContentTypeId

**TypeId:** {DA0F1E90-296F-480E-BC27-CEFE51EFF241}

**ShortName:** SP.ContentTypeId

Represents the **content type identifier** (ID) of a content type.

#### 3.2.5.30.1 Properties

##### 3.2.5.30.1.1 Scalar Properties

###### 3.2.5.30.1.1.1 StringValue

**Type:** CSOM String

**Accessibility:** Read Only

Hexadecimal string value of content type identifier. String value MUST start with "0x".

It MUST NOT be NULL.

##### 3.2.5.30.1.2 ObjectPath Properties

None.

### 3.2.5.31 Microsoft.SharePoint.Client.CustomizedPageStatus

**ShortName:** SP.CustomizedPageStatus

**Flag:** true

Specifies the cache and customization status for a **page**.

### 3.2.5.31.1 Field Values

#### 3.2.5.31.1.1 None

**Value:** 0

Specifies that the page was never cached.

#### 3.2.5.31.1.2 Uncustomized

**Value:** 1

Specifies that the page is cached and has not been customized.

#### 3.2.5.31.1.3 Customized

**Value:** 2

The page was cached and has been customized.

### 3.2.5.32 Microsoft.SharePoint.Client.DateTimeFieldFormatType

**ShortName:** SP.DateTimeFieldFormatType

**Flag:** false

Specifies the format to use displaying date and time fields (2).

#### 3.2.5.32.1 Field Values

##### 3.2.5.32.1.1 DateOnly

**Value:** 0

Specifies that only the date is displayed.

##### 3.2.5.32.1.2 DateTime

**Value:** 1

Specifies that both the date and the time are displayed.

### 3.2.5.33 Microsoft.SharePoint.Client.DraftVisibilityType

**ShortName:** SP.DraftVisibilityType

**Flag:** false

Specifies the minimum permission required to view minor versions and **drafts**.

#### 3.2.5.33.1 Field Values

##### 3.2.5.33.1.1 Reader

**Value:** 0

Specifies that the minimum permission is reader.

### 3.2.5.33.1.2 Author

**Value:** 1

Specifies that the minimum permission is author.

### 3.2.5.33.1.3 Approver

**Value:** 2

Specifies that the minimum permission is approver.

### 3.2.5.34 Microsoft.SharePoint.Client.Feature

**TypeId:** {4E46B28C-E27F-4964-A8D4-FC25658D86D1}

**ShortName:** SP.Feature

Represents an activated **feature**.

#### 3.2.5.34.1 Properties

##### 3.2.5.34.1.1 Scalar Properties

###### 3.2.5.34.1.1.1 DefinitionId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier for this feature.

It MUST NOT be NULL.

###### 3.2.5.34.1.2 ObjectPath Properties

None.

##### 3.2.5.34.2 Methods

###### 3.2.5.34.2.1 Scalar Methods

None.

###### 3.2.5.34.2.2 ObjectPath Methods

None.

### 3.2.5.35 Microsoft.SharePoint.Client.FeatureCollection

**TypeId:** {8B9C0015-193D-4062-8E98-8D23C303EEDD}

**ShortName:** SP.FeatureCollection



Represents a collection of activated features.

### 3.2.5.35.1 Properties

#### 3.2.5.35.1.1 Scalar Properties

None.

#### 3.2.5.35.1.2 ObjectPath Properties

None.

### 3.2.5.35.2 Methods

#### 3.2.5.35.2.1 Scalar Methods

##### 3.2.5.35.2.1.1 Remove

**Return Type:** None

Removes the feature from the collection of features.

**Parameters:**

*featureId*: The **feature identifier** of the feature to be removed.

Type: CSOM GUID

It MUST NOT be NULL.

*force*: Specifies whether to force the operation to continue even if there are errors.

Type: CSOM Boolean

This parameter is ignored if there are no errors.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	The given feature is not an activated feature or the given feature cannot be deactivated and the force parameter was not set to "true".

#### 3.2.5.35.2.2 ObjectPath Methods

##### 3.2.5.35.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.Feature

Adds the feature to the collection of activated features and returns the added feature.

**Parameters:**

*featureId*: The feature identifier of the feature to be added.

Type: CSOM GUID

It MUST NOT be NULL.

*force*: Specifies whether to overwrite an existing feature with the same feature identifier.

Type: CSOM Boolean

This parameter is ignored if there is no existing feature with the same feature identifier.

*featdefScope*: The **feature scope** for this feature.

Type: Microsoft.SharePoint.Client.FeatureDefinitionScope

It MUST have the value of FeatureDefinitionScope.Site or FeatureDefinitionScope.Farm [<6>](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	The given feature is not installed at the feature scope.

### 3.2.5.35.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.Feature

Returns the feature for the given feature identifier. Returns NULL if no feature is available for the given feature identifier.

**Parameters:**

*featureId*: The feature identifier of the feature to be returned.

Type: CSOM GUID

### 3.2.5.36 Microsoft.SharePoint.Client.FeatureDefinitionScope

**ShortName:** SP.FeatureDefinitionScope

**Flag:** false

Specifies the feature scope for a **feature definition**.

#### 3.2.5.36.1 Field Values

##### 3.2.5.36.1.1 None

**Value:** 0

The feature scope is not specified.

##### 3.2.5.36.1.2 Farm

**Value:** 1

Specifies the feature scope to be at the **farm** level.

### 3.2.5.36.1.3 Site

**Value:** 2

Specifies the feature scope to be at the site collection level.

### 3.2.5.36.1.4 Web

**Value:** 3

Specifies the feature scope to be at the site (2) level.

### 3.2.5.37 Microsoft.SharePoint.Client.Field

**TypeId:** {C4121B04-0F57-4B1D-A145-D25426B16480}

**ShortName:** SP.Field

Represent a field (2) that is specified in [\[MS-WSSTS\]](#) section 2.1.2.9.

#### 3.2.5.37.1 Properties

##### 3.2.5.37.1.1 Scalar Properties

###### 3.2.5.37.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the field (2) can be deleted.

###### 3.2.5.37.1.1.2 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the default value for the field (2).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an <b>external list</b> .

###### 3.2.5.37.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description of the field (2).

### 3.2.5.37.1.1.4 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **reading order** of the field (2). Its value is implementation-specific to the client used to browse instances of this field (2).

If the value is set to "none", **Microsoft.SharePoint.Client.List.Direction** specifies the reading order of the field (2) that is specified in section [3.2.5.79.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.37.1.1.5 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) enforces unique values.

The value MUST NOT be set to "true" for the following built-in fields (2)

Field Identifier	Field Name
{1df5e554-ec7e-46a6-901d-d85a3881cb18}	Author
{d31655d1-1d5b-4511-95a1-7a09e9b75bf2}	Editor
{28cf69c5-fa48-462a-b5cd-27b6f9d2bd5f}	Modified
{7841bf41-43d0-4434-9f50-a673baef7631}	_UIVersion
{8c06beca-0777-48f7-91c7-6da68bc07b69}	Created
{26d0756c-986a-48a7-af35-bf18ab85ff4a}	_HasCopyDestinations
{3881510a-4e4a-4ee8-b102-8ee8e2d0dd4b}	CheckoutUser
{c042a256-787d-4a6f-8a8a-cf6ab767f12d}	ContentType

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding <b>unique column constraints</b> to the field (2) where the list (1) is an external list.

### 3.2.5.37.1.1.6 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

Specifies the type of the field (2).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.37.1.1.7 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether list items in the list (1) can be filtered by the field (2) value.

### 3.2.5.37.1.1.8 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a **base field type**.

### 3.2.5.37.1.1.9 Group

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **field group**.

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.37.1.1.10 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) is **hidden** in list views and **list forms**.

### 3.2.5.37.1.1.11 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the field identifier.

### 3.2.5.37.1.1.12 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the field internal name.

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.37.1.1.13 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the value of the field (2) is read-only.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.37.1.1.14 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) requires a value. If the field (2) requires a value, this value MUST be set to "true". Otherwise, it MUST be set to "false".

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.37.1.1.15 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the XML schema that defines the field (2).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type as defined in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

**3.2.5.37.1.1.16 Scope**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the list (1) or the site (2) that the field (2) belongs to.

**3.2.5.37.1.1.17 Sealed**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether properties on the field (2) cannot be changed and whether the field (2) cannot be deleted.

**3.2.5.37.1.1.18 Sortable**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether list items in the list (1) can be sorted by the field (2) value.

**3.2.5.37.1.1.19 StaticName**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a customizable identifier of the field (2). If the value is NULL or empty, the protocol server (2) MUST use the value of *InternalName*.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.37.1.1.20 Title**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name of the field (2).

### 3.2.5.37.1.1.21 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the type of the field (2).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.37.1.1.22 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name for the type of the field (2).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.37.1.1.23 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the description for the type of the field (2).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.37.1.1.24 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **data validation criteria** for the value of the field (2).

### 3.2.5.37.1.1.25 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the error message returned when **data validation** fails for the field (2).

Its length MUST be equal to or less than 1024.



### 3.2.5.37.1.2 ObjectPath Properties

None.

### 3.2.5.37.2 Methods

#### 3.2.5.37.2.1 Scalar Methods

##### 3.2.5.37.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.37.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an <b>indexed field</b> . The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

##### 3.2.5.37.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

## Exceptions:

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is <b>TRUE</b> .

### 3.2.5.37.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <7>

#### Parameters:

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.37.2.2 ObjectPath Methods

None.

### 3.2.5.38 Microsoft.SharePoint.Client.FieldCalculated

**TypeId:** {F9EE4627-2914-46CD-806A-4921F96A0C72}

**ShortName:** SP.FieldCalculated

Specifies a **calculated field**.

#### 3.2.5.38.1 Properties

##### 3.2.5.38.1.1 Scalar Properties

###### 3.2.5.38.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

### 3.2.5.38.1.1.2 DateFormat

**Type:** Microsoft.SharePoint.Client.DateTimeFieldFormatType

**Accessibility:** Read/Write

Specifies the date and time format that is used in the field (2).

### 3.2.5.38.1.1.3 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The field (2) value is being set, and the list (1) is an external list.

### 3.2.5.38.1.1.4 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.38.1.1.5 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.38.1.1.6 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

**3.2.5.38.1.1.7 FieldTypeKind****Type:** Microsoft.SharePoint.Client.FieldType**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.38.1.1.8 Filterable****Type:** CSOM Boolean**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).**3.2.5.38.1.1.9 Formula****Type:** CSOM String**Accessibility:** Read/Write

Specifies the formula for the field (2).

It MUST NOT be empty.

**3.2.5.38.1.1.10 FromBaseType****Type:** CSOM Boolean**Accessibility:** Read OnlyGets a **Boolean** value that indicates whether the field (2) derives from a base field type.**3.2.5.38.1.1.11 Group****Type:** CSOM String**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.38.1.1.12 Hidden**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

**3.2.5.38.1.1.13 Id**

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

**3.2.5.38.1.1.14 InternalName**

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

**3.2.5.38.1.1.15 OutputType**

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

Specifies the output format for the field (2).

It MUST be one of the following values: Text, Number, Integer, Currency, Boolean, or DateTime.

**3.2.5.38.1.1.16 ReadOnlyField**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.38.1.1.17 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.38.1.1.18 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type as defined in [\[MS-WSSCAML\]](#) section 2.3.2.9.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

### 3.2.5.38.1.1.19 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.38.1.1.20 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.38.1.1.21 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.38.1.1.22 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.38.1.1.20](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.38.1.1.23 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.38.1.1.24 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.38.1.1.25 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.38.1.1.26 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.38.1.1.27 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.38.1.1.28 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.38.1.2 ObjectPath Properties

None.

### 3.2.5.38.2 Methods

#### 3.2.5.38.2.1 Scalar Methods

##### 3.2.5.38.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.38.2.1.2 Update

**Return Type:** None



Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.38.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.38.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <8>

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.38.2.2 ObjectPath Methods

None.

### 3.2.5.39 Microsoft.SharePoint.Client.FieldCalculatedErrorValue

**TypeId:** {3387286B-36E3-4199-BDCA-F20048CE8328}

**ShortName:** SP.FieldCalculatedErrorValue

Specifies the value of a calculated field when the field (2) value is a calculation error, such as division by zero, or overflow.

#### 3.2.5.39.1 Properties

##### 3.2.5.39.1.1 Scalar Properties

###### 3.2.5.39.1.1.1 ErrorMessage

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the error message of the calculation error.

###### 3.2.5.39.1.2 ObjectPath Properties

None.

### 3.2.5.40 Microsoft.SharePoint.Client.FieldChoice

**TypeId:** {A0B73943-FABC-47D3-B2C8-EC41B1216B1D}

**ShortName:** SP.FieldChoice

Represents a choice field (2).

#### 3.2.5.40.1 Properties

##### 3.2.5.40.1.1 Scalar Properties

###### 3.2.5.40.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

### 3.2.5.40.1.1.2 Choices

**Type:** CSOM Array

**Accessibility:** Read/Write

Specifies the collection of choices that are used in this choice field (2).

It MUST be an array of CSOM Strings.

### 3.2.5.40.1.1.3 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The field (2) value is being set, and the list (1) is an external list.

### 3.2.5.40.1.1.4 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.40.1.1.5 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) that the field (2) belongs to has an external <b>data source (1)</b> and direction is not equal to none.

### 3.2.5.40.1.1.6 EditFormat

**Type:** Microsoft.SharePoint.Client.ChoiceFormatType

**Accessibility:** Read/Write

Specifies whether to display the choice field (2) as radio buttons or as a drop-down list.

### 3.2.5.40.1.1.7 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	If the field (2) belongs to a list (1) that has an external data source (1) and trying to set to <b>true</b>

### 3.2.5.40.1.1.8 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The field (2) belongs to a list (1) that has an external data source (1) and <b>FieldTypeKind</b> is modified.

### 3.2.5.40.1.1.9 FillInChoice

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether users can fill in their own values for the field (2).

### 3.2.5.40.1.1.10 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.40.1.1.11 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the field (2) derives from a base field type.

### 3.2.5.40.1.1.12 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	If this field (2) belongs to a list (1) that has an external data source (1).

### 3.2.5.40.1.1.13 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.40.1.1.14 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.40.1.1.15 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.40.1.1.16 Mappings

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the canonical values for the specified choices.

It MUST be NULL or XML that is valid according to the schema for **MAPPINGDEFINITION**, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.13.1.

### 3.2.5.40.1.1.17 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether values in the field (2) can be modified.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Thrown when attempting to change the value of <b>ReadOnlyField</b> when this field (2) has an external data source (1).

### 3.2.5.40.1.1.18 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	If this field (2) belongs to a list (1) that has an external data source (1) and Required is set to "true".

### 3.2.5.40.1.1.19 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be an **XML document** that conforms to the **FieldDefinition** type as defined in [\[MS-WSSCAML\]](#) or a string that is NULL or empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) that the field (2) belongs to has an external data source (1) and the set value is not an empty or a null string.

### 3.2.5.40.1.1.20 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.40.1.1.21 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.40.1.1.22 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.40.1.1.23 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.38.1.1.20](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	If this field (2) belongs to a list (1) that has an external data source (1) and StaticName is changed.

### 3.2.5.40.1.1.24 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.40.1.1.25 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	If the list (1) has an external data source (1)

### 3.2.5.40.1.1.26 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.40.1.1.27 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.40.1.1.28 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.40.1.1.29 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.40.1.2 ObjectPath Properties

None.



## 3.2.5.40.2 Methods

### 3.2.5.40.2.1 Scalar Methods

#### 3.2.5.40.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	The field (2) does not allow deletion.

#### 3.2.5.40.2.1.2 Update

**Return Type:** None

Updates the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Changing the field type on an indexed field (2) or changing the field type and indexing the field (2) at the same time.
-2130246238	Microsoft.SharePoint.SPException	Changing a field (2) to stop indexing that does not allow duplicate values.
-2130246236	Microsoft.SharePoint.SPException	Changing the field type of the field (2) that does not allow duplicate values.

#### 3.2.5.40.2.1.3 UpdateAndPushChanges

**Return Type:** None

Updates the field (2), optionally propagating the changes to lists (1) containing the field (2).

**Parameters:**

*pushChangesToLists*: "true" to propagate changes to lists (1) that contain the field (2); otherwise, "false".

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Changing the field type on an indexed field (2) or changing the field type and indexing the field (2) at the same time.
- 2130246238	Microsoft.SharePoint.SPException	Changing a field (2) to stop indexing that does not allow duplicate values.
- 2130246236	Microsoft.SharePoint.SPException	Changing the field type of a field (2) that does not allow duplicate values.

### 3.2.5.40.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <9>

**Parameters:**

*item:* Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value:* Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.40.2.2 ObjectPath Methods

None.

### 3.2.5.41 Microsoft.SharePoint.Client.FieldCollection

**TypeId:** {D449D756-E113-4D27-A5E7-609CBC3EBA7E}

**ShortName:** SP.FieldCollection

Represents a read only Collection of fields (2)

#### 3.2.5.41.1 Properties

##### 3.2.5.41.1.1 Scalar Properties

##### 3.2.5.41.1.1.1 SchemaXml

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the XML schema of the collection of fields (2).

It MUST NOT be NULL. It MUST NOT be empty. It MUST be an XML document in which each field (2) in SchemaXml conforms to the **FieldDefinitions** type as defined in [MS-WSSFO2] section 2.2.8.3.3.

### 3.2.5.41.1.2 ObjectPath Properties

None.

### 3.2.5.41.2 Methods

#### 3.2.5.41.2.1 Scalar Methods

None.

#### 3.2.5.41.2.2 ObjectPath Methods

##### 3.2.5.41.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.Field

Adds a field (2) to the field (2) collection. A reference (3) to the SP.Field that was added is returned.

**Parameters:**

*field*: A Microsoft.Sharepoint.Field object (1)

Type: Microsoft.SharePoint.Client.Field

It MUST NOT be NULL.

##### 3.2.5.41.2.2.2 AddDependentLookup

**Return Type:** Microsoft.SharePoint.Client.Field

Adds a secondary lookup field to a field (2) collection. A reference (3) to the SP.Field that was added is returned.

**Parameters:**

*displayName*: Title of the added field (2).

Type: CSOM String

*primaryLookupField*: Main lookup field to associate the dependent lookup field with. A dependent lookup field will include data from the list item referred to from the instance of the main lookup field.

Type: Microsoft.SharePoint.Client.Field

*lookupField*: Name of the field (2) from the target list (1) to include data from.

Type: CSOM String

##### 3.2.5.41.2.2.3 AddFieldAsXml

**Return Type:** Microsoft.SharePoint.Client.Field

Creates a field (2) in the field (2) collection. A reference (3) to the SP.Field that was added is returned.

**Parameters:**

*schemaXml*: XML string that specifies the field (2) definition.

Type: CSOM String

It MUST be a valid XML string corresponding to the following schema:

```
<s:element name="Field" minOccurs="1" maxOccurs="1" type="core:FieldDefinition">
```

The **FieldDefinition** type is specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.1.

It MUST NOT be NULL. It MUST NOT be empty.

*addToDefaultView*: Specifies to add the field (2) to the default list view.

Type: CSOM Boolean

*options*: A value that specifies the field (2) options.

Type: Microsoft.SharePoint.Client.AddFieldOptions

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024891	System.UnauthorizedAccessException	The <b>current user</b> has insufficient permissions.

### 3.2.5.41.2.2.4 GetById

**Return Type:** Microsoft.SharePoint.Client.Field

Returns the field (2) specified by the identifier as represented by the parameter.

**Parameters:**

*id*: The field (2) identifier.

Type: CSOM GUID

### 3.2.5.41.2.2.5 GetByInternalNameOrTitle

**Return Type:** Microsoft.SharePoint.Client.Field

Returns the first field (2) in the collection based on the internal name or the title specified by the parameter.

**Parameters:**

*strName*: The title or internal name to look up the field (2) by.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.41.2.2.6 GetByTitle

**Return Type:** Microsoft.SharePoint.Client.Field

Returns the first field (2) object (1) in the collection based on the title of the specified field (2)

**Parameters:**

*displayName*: The title to look up the field (2) by.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**3.2.5.41.2.2.7 AddDependentLookupField**

**Return Type:** Microsoft.SharePoint.Client.Field

Adds a secondary lookup field to a field (2) collection. [<10>](#) A reference (3) to the SP.Field that was added is returned.

**Parameters:**

*displayName*: Title of the added field (2).

Type: CSOM String

*primaryLookupFieldId*: Main lookup field to associate the dependent lookup field with. A dependent lookup field will include data from the list item referred to from the instance of the main lookup field.

Type: CSOM GUID

*showField*: A string that contains the internal name of the new field (2).

Type: CSOM String

**3.2.5.41.2.2.8 AddField**

**Return Type:** Microsoft.SharePoint.Client.Field

Adds a field (2) to the field (2) collection. [<11>](#) A reference (3) to the **SP.Field** (section [3.2.5.37](#)) that was added is returned.

**Parameters:**

*parameters*: The metadata of the field (2) to be added.

Type: Microsoft.SharePoint.Client.FieldCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2146232832	Microsoft.SharePoint.SPException	Functionality is unavailable for fields not associated with a list (1), a user tried to add a new field (2) using a duplicate identifier, a user tried to add a relationship behavior to a site (2) column, a user tried to update a configuration database while object

Error Code	Error Type Name	Condition
		had been changed by another user, a user tried to add a field (2) without specifying a display name or a user tried to set UCC to <b>true</b> for a field (2) that cannot be set to <b>false</b> .
- 2130575340	Microsoft.SharePoint.SPException	One or more field (2) types are not installed properly.
- 2130575199	Microsoft.SharePoint.SPException	Formula is empty for the calculated field (2) type.
- 2147024860	Microsoft.SharePoint.SPQueryThrottledException	There is a throttle failure.
- 2147024749	Microsoft.SharePoint.SPQueryThrottledException	There is a join throttle failure.
- 2147024809	System.ArgumentException	Field (2) with the specified internal name or title does not exist in the collection at the given scope.
- 2147024891	System.UnauthorizedAccessException	User does not have permissions to get the field (2).

### 3.2.5.41.2.2.9 CreateFieldAsXml

**Return Type:** Microsoft.SharePoint.Client.Field

Creates a field based on the values defined in the *parameters* input parameter. <12>

**Parameters:**

*parameters*: Defines the information needed to create a field (2) using an xml schema.

Type: Microsoft.SharePoint.Client.XmlSchemaFieldCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
- 214623283 2	Microsoft.SharePoint.SPException	Functionality is unavailable for fields (2) not associated with a list, or a user tried to add a new field using a duplicate identifies, or a user tried to add a field with a duplicate name and the <b>AddFieldOptions.AddFieldCheckDisplayName</b> input parameter is specified, or a user tried to add a relationship behavior to a site (2) column, or a user tried to update a <b>configuration database</b> while object has been changed by another user, or a user tried to add a field (2) without specifying a display name, or a user tried to set UCC to <b>true</b> for a field (2) that cannot be set to <b>false</b> .

Error Code	Error Type Name	Condition
-2130575340	Microsoft.SharePoint.SPException	One or more field types are not installed properly.
-2130575199	Microsoft.SharePoint.SPException	Formula is empty for the calculated field type.
-2147024860	Microsoft.SharePoint.SPQueryThrottledException	There is a throttle failure.
-2147024749	Microsoft.SharePoint.SPQueryThrottledException	There is a join throttle failure.
-2147024809	System.ArgumentException	Field (2) with the specified internal name or title does not exist in the collection at the given scope.
-2147024891	System.UnauthorizedAccessException	User does not have permissions to get the field (2).

### 3.2.5.42 Microsoft.SharePoint.Client.FieldComputed

**TypeId:** {379B8994-F0E7-4C74-A1E6-185EB8600C3C}

**ShortName:** SP.FieldComputed

Specifies a **computed field**.

#### 3.2.5.42.1 Properties

##### 3.2.5.42.1.1 Scalar Properties

###### 3.2.5.42.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

###### 3.2.5.42.1.1.2 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.42.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.42.1.1.4 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none", and the list (1) is an external list.

### 3.2.5.42.1.1.5 EnableLookup

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a lookup field can reference the field (2).

### 3.2.5.42.1.1.6 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.



### 3.2.5.42.1.1.7 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.42.1.1.8 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.42.1.1.9 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.42.1.1.10 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.42.1.1.11 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.42.1.1.12 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.42.1.1.13 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.42.1.1.14 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.42.1.1.15 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.42.1.1.16 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type as defined in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

**3.2.5.42.1.1.17 Scope****Type:** CSOM String**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).**3.2.5.42.1.1.18 Sealed****Type:** CSOM Boolean**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).**3.2.5.42.1.1.19 Sortable****Type:** CSOM Boolean**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).**3.2.5.42.1.1.20 StaticName****Type:** CSOM String**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.42.1.1.21 Title****Type:** CSOM String**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.42.1.1.22 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.42.1.1.23 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.42.1.1.24 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.42.1.1.25 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.42.1.1.26 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.42.1.2 ObjectPath Properties

None.

### 3.2.5.42.2 Methods

#### 3.2.5.42.2.1 Scalar Methods

##### 3.2.5.42.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.42.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

##### 3.2.5.42.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

## Exceptions:

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.42.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <13>

#### Parameters:

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.42.2.2 ObjectPath Methods

None.

### 3.2.5.43 Microsoft.SharePoint.Client.FieldCurrency

**TypeId:** {E03CA5F6-5F18-47F3-8AB4-74CABA56EE1E}

**ShortName:** SP.FieldCurrency

Specifies a field (2) that contains currency values.

#### 3.2.5.43.1 Properties

##### 3.2.5.43.1.1 Scalar Properties

###### 3.2.5.43.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

### 3.2.5.43.1.1.2 CurrencyLocaleId

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the **language code identifier (LCID)** used to format the value of the field (2).

It MUST be a valid language code identifier (LCID) as specified in [\[MS-LCID\]](#) section 2.

### 3.2.5.43.1.1.3 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.43.1.1.4 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.43.1.1.5 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.43.1.1.6 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

**3.2.5.43.1.1.7 FieldTypeKind**

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.43.1.1.8 Filterable**

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

**3.2.5.43.1.1.9 FromBaseType**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

**3.2.5.43.1.1.10 Group**

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.



### 3.2.5.43.1.1.11 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.43.1.1.12 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.38.1.1.12](#).

### 3.2.5.43.1.1.13 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.43.1.1.14 MaximumValue

**Type:** CSOM Double

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldNumber.MaximumValue**, as specified in section [3.2.5.53.1.1.13](#).

### 3.2.5.43.1.1.15 MinimumValue

**Type:** CSOM Double

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldNumber.MinimumValue**, as specified in section [3.2.5.53.1.1.14](#).

### 3.2.5.43.1.1.16 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

#### Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.43.1.1.17 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.43.1.1.18 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSCAML\]](#) section 2.3.2.9.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

### 3.2.5.43.1.1.19 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.43.1.1.20 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.43.1.1.21 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.43.1.1.22 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.43.1.1.23 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.43.1.1.24 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.43.1.1.25 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.43.1.1.26 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.43.1.1.27 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.43.1.1.28 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.43.1.2 ObjectPath Properties

None.

### 3.2.5.43.2 Methods

#### 3.2.5.43.2.1 Scalar Methods

##### 3.2.5.43.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.43.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.43.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.43.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <14>

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.43.2.2 ObjectPath Methods

None.

### 3.2.5.44 Microsoft.SharePoint.Client.FieldDateTime

**TypeId:** {4F9DC9B4-D900-40EB-94B9-008ABBF22E1}

**ShortName:** SP.FieldDateTime

Specifies a field (2) that contains date and time values.

#### 3.2.5.44.1 Properties

##### 3.2.5.44.1.1 Scalar Properties

###### 3.2.5.44.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

###### 3.2.5.44.1.1.2 DateTimeCalendarType

**Type:** Microsoft.SharePoint.Client.CalendarType

**Accessibility:** Read/Write

Specifies the calendar type of the field (2).

It MUST be None if the field (2) is in an external list.

###### 3.2.5.44.1.1.3 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

#### Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

###### 3.2.5.44.1.1.4 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.44.1.1.5 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.44.1.1.6 DisplayFormat

**Type:** Microsoft.SharePoint.Client.DateTimeFieldFormatType

**Accessibility:** Read/Write

Specifies the type of date and time format that is used in the field (2).

### 3.2.5.44.1.1.7 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.44.1.1.8 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.44.1.1.9 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.44.1.1.10 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.44.1.1.11 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.44.1.1.12 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.44.1.1.13 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.44.1.1.14 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.



### 3.2.5.44.1.1.15 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.44.1.1.16 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.44.1.1.17 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type as defined in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

### 3.2.5.44.1.1.18 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.44.1.1.19 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.44.1.1.20 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.44.1.1.21 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.44.1.1.22 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#)

### 3.2.5.44.1.1.23 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.44.1.1.24 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name of the field (2) type.

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.44.1.1.25 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.44.1.1.26 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#)

### 3.2.5.44.1.1.27 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.44.1.1.28 FriendlyDisplayFormat

**Type:** Microsoft.SharePoint.Client.DateTimeFieldFriendlyFormatType

**Accessibility:** Read/Write

Gets or sets the type of friendly display format that is used in the field. [<15>](#)

### 3.2.5.44.1.2 ObjectPath Properties

None.

## 3.2.5.44.2 Methods

### 3.2.5.44.2.1 Scalar Methods

#### 3.2.5.44.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is FALSE.

#### 3.2.5.44.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

#### 3.2.5.44.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

#### 3.2.5.44.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. [<16>](#)

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

#### 3.2.5.44.2.2 ObjectPath Methods

None.

#### 3.2.5.45 Microsoft.SharePoint.Client.FieldGuid

**TypeId:** {768B27AA-A4E0-4CFB-9956-1F7F0E93FB42}

**ShortName:** SP.FieldGuid

Specifies a field (2) that contains global unique identifier values.

#### 3.2.5.45.1 Properties

##### 3.2.5.45.1.1 Scalar Properties

##### 3.2.5.45.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

### 3.2.5.45.1.1.2 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.45.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.45.1.1.4 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.45.1.1.5 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.45.1.1.6 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.45.1.1.7 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified section [3.2.5.37.1.1.7](#).

### 3.2.5.45.1.1.8 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.45.1.1.9 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.45.1.1.10 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.45.1.1.11 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.45.1.1.12 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.45.1.1.13 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.45.1.1.14 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.45.1.1.15 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be an XML document that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3, or a **string** that is NULL or empty.



**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

**3.2.5.45.1.1.16 Scope****Type:** CSOM String**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).**3.2.5.45.1.1.17 Sealed****Type:** CSOM Boolean**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).**3.2.5.45.1.1.18 Sortable****Type:** CSOM Boolean**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).**3.2.5.45.1.1.19 StaticName****Type:** CSOM String**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.45.1.1.20 Title****Type:** CSOM String**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.45.1.1.21 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.45.1.1.22 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name for **FieldTypeKind** of the field (2).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.45.1.1.23 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.45.1.1.24 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.45.1.1.25 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.45.1.2 ObjectPath Properties

None.

### 3.2.5.45.2 Methods

#### 3.2.5.45.2.1 Scalar Methods

##### 3.2.5.45.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	The field (2) cannot be deleted because it does not allow deletion.

##### 3.2.5.45.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Changing the type of a field (2) that is being indexed or is already indexed is not allowed.
-2130246238	Microsoft.SharePoint.SPException	Removing an index from a field (2) that does not allow duplicate values.
-2130246236	Microsoft.SharePoint.SPException	Changing the type of a field (2) that does not allow duplicate values.

##### 3.2.5.45.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Changing the type of a field (2) that is being indexed or is already indexed is not allowed.
- 2130246238	Microsoft.SharePoint.SPException	Removing an index from a field (2) that does not allow duplicate values.
- 2130246236	Microsoft.SharePoint.SPException	Changing the type of a field (2) that does not allow duplicate values.

### 3.2.5.45.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. [<17>](#)

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.45.2.2 ObjectPath Methods

None.

### 3.2.5.46 Microsoft.SharePoint.Client.FieldLink

**TypeId:** {E2D99203-868F-4211-AC76-F6BCA0FF94EE}

**ShortName:** SP.FieldLink

Specifies a reference (3) to a field (2) or **field definition** for a content type.

#### 3.2.5.46.1 Properties

##### 3.2.5.46.1.1 Scalar Properties

###### 3.2.5.46.1.1.1 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) corresponding to this field link is available in New/Edit list forms.

### 3.2.5.46.1.1.2 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the GUID identifier of the field link. The value of this property is identical to the value of the **Id** property of the field (2) or field definition that is being referenced.

It MUST NOT be an empty GUID.

### 3.2.5.46.1.1.3 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the field link.

It MUST be less than or equal to 256 characters.

It MUST NOT be NULL.

### 3.2.5.46.1.1.4 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) requires a value. If the field (2) requires a value, this value MUST be set to "true". Otherwise, it MUST be set to "false".

### 3.2.5.46.1.1.5 FieldInternalName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the internal name of the field (2). [<18>](#)

### 3.2.5.46.1.2 ObjectPath Properties

None.

## 3.2.5.46.2 Methods

### 3.2.5.46.2.1 Scalar Methods

#### 3.2.5.46.2.1.1 DeleteObject

**Return Type:** None

Deletes this field link from the collection of the parent content type.

**Parameters:** None

### 3.2.5.46.2.2 ObjectPath Methods

None.

### 3.2.5.47 Microsoft.SharePoint.Client.FieldLinkCollection

**TypeId:** {6D87E76A-B8A8-4634-8170-082B1D454BFD}

**ShortName:** SP.FieldLinkCollection

Specifies a Collection for field links.

#### 3.2.5.47.1 Properties

##### 3.2.5.47.1.1 Scalar Properties

None.

##### 3.2.5.47.1.2 ObjectPath Properties

None.

#### 3.2.5.47.2 Methods

##### 3.2.5.47.2.1 Scalar Methods

None.

##### 3.2.5.47.2.2 ObjectPath Methods

###### 3.2.5.47.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.FieldLink

Add a field link with the specified link information to the collection. A reference (3) to the SP.Field that was added is returned.

**Parameters:**

*parameters:* Specifies the field link information of the field link to be added to the collection.

Type: Microsoft.SharePoint.Client.FieldLinkCreationInformation

It MUST NOT be NULL.

###### 3.2.5.47.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.FieldLink

Gets the field link with the given *id* from this collection. [<19>](#) If the *id* is not found in the collection, returns **null**.

**Parameters:**

*id:* The GUID that specifies the **Microsoft.SharePoint.Client.FieldLink** (section [3.2.5.46](#)) that is returned.

Type: CSOM GUID

### 3.2.5.48 Microsoft.SharePoint.Client.FieldLinkCreationInformation

**TypeId:** {63FB2C92-8F65-4BBB-A658-B6CD294403F4}

**ShortName:** SP.FieldLinkCreationInformation

Specifies a set of properties that are used as parameters to initialize a field link.

#### 3.2.5.48.1 Properties

##### 3.2.5.48.1.1 Scalar Properties

None.

##### 3.2.5.48.1.2 ObjectPath Properties

###### 3.2.5.48.1.2.1 Field

**Type:** Microsoft.SharePoint.Client.Field

**Accessibility:** Read/Write

Specifies field (2) information of the field link to be created.

It MUST NOT be NULL.

### 3.2.5.49 Microsoft.SharePoint.Client.FieldLookup

**TypeId:** {EE47FF61-3260-43A9-BE22-829A1FA85B44}

**ShortName:** SP.FieldLookup

AGUID that specifies a lookup field.

#### 3.2.5.49.1 Properties

##### 3.2.5.49.1.1 Scalar Properties

###### 3.2.5.49.1.1.1 AllowMultipleValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the lookup field allows multiple values.

###### 3.2.5.49.1.1.2 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

### 3.2.5.49.1.1.3 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.49.1.1.4 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.49.1.1.5 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.49.1.1.6 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.



### 3.2.5.49.1.1.7 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.49.1.1.8 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.49.1.1.9 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.49.1.1.10 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.49.1.1.11 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.49.1.1.12 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.49.1.1.13 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.49.1.1.14 IsRelationship

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the lookup field is a **relationship lookup field**. It determines whether this lookup field is returned by **Microsoft.SharePoint.Client.List.GetRelatedField**.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) that the field (2) belongs to is an external list.

### 3.2.5.49.1.1.15 LookupField

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the internal name of the field (2) in the target list (1), used to display lookup values.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) that this field (2) belongs to is an external list.

### 3.2.5.49.1.1.16 LookupList

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the list identifier of the target list (1) that contains the lookup field.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) that this field (2) belongs to is an external list.

### 3.2.5.49.1.1.17 LookupWebId

**Type:** CSOM GUID

**Accessibility:** Read/Write

Specifies the GUID that identifies the site (2) containing the list (1) that contains the field (2) used as the lookup values.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) that this field (2) belongs to is an external list.

### 3.2.5.49.1.1.18 PrimaryFieldId

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **primary lookup field** identifier if this is a **dependent lookup field**. Otherwise, it is an empty string.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	When the list (1) that this field (2) belongs to is an external list.

### 3.2.5.49.1.1.19 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.49.1.1.20 RelationshipDeleteBehavior

**Type:** Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**Accessibility:** Read/Write

Gets or sets a value that specifies the **relationship delete behavior** of the lookup field.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) that the field (2) belongs to is an external list.

### 3.2.5.49.1.1.21 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.49.1.1.22 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSCAML\]](#) section 2.3.2.9.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value that is not NULL or empty, and the list (1) is an external list.

### 3.2.5.49.1.1.23 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.49.1.1.24 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.49.1.1.25 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.49.1.1.26 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.49.1.1.27 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.49.1.1.28 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.49.1.1.29 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.49.1.1.30 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.49.1.1.31 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.49.1.1.32 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.49.1.1.33 Indexed

**Type:** CSOM Boolean

**Accessibility:** Read Only

A bit that specifies whether the field (2) is an indexed field. [<20>](#)

### 3.2.5.49.1.2 ObjectPath Properties

None.

### 3.2.5.49.2 Methods

#### 3.2.5.49.2.1 Scalar Methods

##### 3.2.5.49.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.49.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

##### 3.2.5.49.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

## Exceptions:

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.49.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <21>

#### Parameters:

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.49.2.2 ObjectPath Methods

None.

### 3.2.5.50 Microsoft.SharePoint.Client.FieldLookupValue

**TypeId:** {F1D34CC0-9B50-4A78-BE78-D5FACFCCCFB7}

**ShortName:** SP.FieldLookupValue

Specifies the value of a lookup for a field (2) within a list item.

#### 3.2.5.50.1 Properties

##### 3.2.5.50.1.1 Scalar Properties

###### 3.2.5.50.1.1.1 LookupId

**Type:** CSOM Int32

**Accessibility:** Read/Write

Gets or sets the **list item identifier** of the list item that this instance of the lookup field is referring to.



### 3.2.5.50.1.1.2 LookupValue

**Type:** CSOM String

**Accessibility:** Read Only

Gets a summary of the list item that this instance of the lookup field is referring to.

### 3.2.5.50.1.2 ObjectPath Properties

None.

### 3.2.5.51 Microsoft.SharePoint.Client.FieldMultiChoice

**TypeId:** {284C160F-3783-4344-A471-80E032719F26}

**ShortName:** SP.FieldMultiChoice

Specifies a field (2) that contains one or more values from a set of specified values.

#### 3.2.5.51.1 Properties

##### 3.2.5.51.1.1 Scalar Properties

###### 3.2.5.51.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

###### 3.2.5.51.1.1.2 Choices

**Type:** CSOM Array

**Accessibility:** Read/Write

Specifies values that are available for selection in the field (2).

It MUST be an array of CSOM Strings.

###### 3.2.5.51.1.1.3 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

#### Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

#### 3.2.5.51.1.1.4 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

#### 3.2.5.51.1.1.5 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

#### 3.2.5.51.1.1.6 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

#### 3.2.5.51.1.1.7 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.51.1.1.8 FillInChoice

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) can accept values other than those specified in **Microsoft.Sharepoint.Client.FieldMultiChoice.Choices**, as specified in section [3.2.5.51.1.1.2](#).

### 3.2.5.51.1.1.9 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.51.1.1.10 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.51.1.1.11 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.51.1.1.12 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.51.1.1.13 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.51.1.1.14 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.51.1.1.15 Mappings

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the internal values corresponding to **Choices**.

It MUST be NULL or an XML fragment that conforms to **MAPPINGDEFINITION**, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.13.

### 3.2.5.51.1.1.16 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.51.1.1.17 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.51.1.1.18 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

**3.2.5.51.1.1.19 Scope**

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

**3.2.5.51.1.1.20 Sealed**

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

**3.2.5.51.1.1.21 Sortable**

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

**3.2.5.51.1.1.22 StaticName**

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.51.1.1.23 Title**

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.51.1.1.24 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.51.1.1.25 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.51.1.1.26 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.51.1.1.27 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.51.1.1.28 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.51.1.2 ObjectPath Properties

None.

### 3.2.5.51.2 Methods

#### 3.2.5.51.2.1 Scalar Methods

##### 3.2.5.51.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.51.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

##### 3.2.5.51.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

## Exceptions:

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.51.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <22>

#### Parameters:

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.51.2.2 ObjectPath Methods

None.

### 3.2.5.52 Microsoft.SharePoint.Client.FieldMultiLineText

**TypeId:** {9AE17ECC-11A6-4433-8B51-7ECB865FFE05}

**ShortName:** SP.FieldMultiLineText

Specifies a field (2) that can contain multiple lines of text.

#### 3.2.5.52.1 Properties

##### 3.2.5.52.1.1 Scalar Properties

###### 3.2.5.52.1.1.1 AllowHyperlink

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a **hyperlink** is allowed as a value of the field (2).



### 3.2.5.52.1.1.2 AppendOnly

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether all changes to the value of the field (2) are displayed in list forms.

### 3.2.5.52.1.1.3 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

### 3.2.5.52.1.1.4 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.52.1.1.5 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.52.1.1.6 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.52.1.1.7 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.52.1.1.8 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.52.1.1.9 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.52.1.1.10 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.52.1.1.11 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.52.1.1.12 Hidden****Type:** CSOM Boolean**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).**3.2.5.52.1.1.13 Id****Type:** CSOM GUID**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).**3.2.5.52.1.1.14 InternalName****Type:** CSOM String**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

**3.2.5.52.1.1.15 NumberOfLines****Type:** CSOM Int32**Accessibility:** Read/Write

Specifies the number of lines of text to display for the field (2).

Its value MUST be equal to or greater than 1. Its value MUST be equal to or less than 1000.

**3.2.5.52.1.1.16 ReadOnlyField****Type:** CSOM Boolean**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.52.1.1.17 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.52.1.1.18 RestrictedMode

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) supports a subset of **rich text** formatting.

### 3.2.5.52.1.1.19 RichText

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) supports rich text formatting.

### 3.2.5.52.1.1.20 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value that is not NULL or empty value, and the list (1) is an external list.

### 3.2.5.52.1.1.21 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.52.1.1.22 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.52.1.1.23 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.52.1.1.24 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.52.1.1.25 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.52.1.1.26 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.52.1.1.27 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.52.1.1.28 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.52.1.1.29 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.52.1.1.30 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.52.1.1.31 WikiLinking

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether an implementation specific mechanism for linking wiki pages is supported. It MUST be "FALSE" if **RichText** is "FALSE".

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.52.1.2 ObjectPath Properties

None.

### 3.2.5.52.2 Methods

#### 3.2.5.52.2.1 Scalar Methods

##### 3.2.5.52.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.52.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

##### 3.2.5.52.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

## Exceptions:

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.52.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <23>

#### Parameters:

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.52.2.2 ObjectPath Methods

None.

### 3.2.5.53 Microsoft.SharePoint.Client.FieldNumber

**TypeId:** {E32D2A19-D2A8-428C-B056-EA71EDE547CE}

**ShortName:** SP.FieldNumber

Specifies a field (2) that contains number values.

#### 3.2.5.53.1 Properties

##### 3.2.5.53.1.1 Scalar Properties

###### 3.2.5.53.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).



### 3.2.5.53.1.1.2 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.53.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.53.1.1.4 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.53.1.1.5 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.53.1.1.6 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.53.1.1.7 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.53.1.1.8 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.53.1.1.9 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.53.1.1.10 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.53.1.1.11 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.53.1.1.12 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.53.1.1.13 MaximumValue

**Type:** CSOM Double

**Accessibility:** Read/Write

Specifies the maximum allowed value for the field (2).

### 3.2.5.53.1.1.14 MinimumValue

**Type:** CSOM Double

**Accessibility:** Read/Write

Specifies the minimum allowed value for the field (2).

### 3.2.5.53.1.1.15 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.53.1.1.16 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.53.1.1.17 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value that is not NULL or empty value, and the list (1) is an external list.

### 3.2.5.53.1.1.18 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.53.1.1.19 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.53.1.1.20 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.53.1.1.21 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.53.1.1.22 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.53.1.1.23 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.53.1.1.24 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.53.1.1.25 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.53.1.1.26 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.53.1.1.27 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.53.1.2 ObjectPath Properties

None.

### 3.2.5.53.2 Methods

#### 3.2.5.53.2.1 Scalar Methods

##### 3.2.5.53.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.53.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.53.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.53.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <24>

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.53.2.2 ObjectPath Methods

None.

### 3.2.5.54 Microsoft.SharePoint.Client.FieldRatingScale

**TypeId:** {66D84FDD-BDB2-4E21-BED0-67F3EAB33DE4}

**ShortName:** SP.FieldRatingScale

Specifies a field (2) that contains rating scale values for a survey list.

### 3.2.5.54.1 Properties

#### 3.2.5.54.1.1 Scalar Properties

##### 3.2.5.54.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

##### 3.2.5.54.1.1.2 Choices

**Type:** CSOM Array

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldMultiChoice.Choices**, as specified in section [3.2.5.51.1.1.2](#).

##### 3.2.5.54.1.1.3 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

##### 3.2.5.54.1.1.4 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

##### 3.2.5.54.1.1.5 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**



Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.54.1.1.6 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.54.1.1.7 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.54.1.1.8 FillInChoice

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldMultiChoice.FillInChoice**, as specified in section [3.2.5.51.1.1.8](#).

### 3.2.5.54.1.1.9 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.54.1.1.10 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.54.1.1.11 GridEndNumber

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the end number for the rating scale.

### 3.2.5.54.1.1.12 GridNAOptionText

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display text corresponding to the choice in the rating scale that indicates the non-applicable option.

### 3.2.5.54.1.1.13 GridStartNumber

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the start number for the rating scale.

### 3.2.5.54.1.1.14 GridTextRangeAverage

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display text corresponding to the average of the rating scale.

### 3.2.5.54.1.1.15 GridTextRangeHigh

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display text corresponding to the maximum of the rating scale.

### 3.2.5.54.1.1.16 GridTextRangeLow

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display text corresponding to the minimum of the rating scale.

### 3.2.5.54.1.1.17 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.54.1.1.18 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.54.1.1.19 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.54.1.1.20 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.54.1.1.21 Mappings

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.FieldMultiChoice.Mappings**, as specified in section [3.2.5.51.1.1.15](#).

MUST be NULL or an XML fragment that conforms to **MAPPINGDEFINITION**, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.13.

### 3.2.5.54.1.1.22 RangeCount

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of options in the rating scale.

### 3.2.5.54.1.1.23 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.54.1.1.24 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.54.1.1.25 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value that is not NULL or empty, and the list (1) is an external list.

### 3.2.5.54.1.1.26 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.54.1.1.27 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.54.1.1.28 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.54.1.1.29 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.54.1.1.30 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.54.1.1.31 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.54.1.1.32 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See `Microsoft.SharePoint.Client.Field.TypeDisplayName`, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.54.1.1.33 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See `Microsoft.SharePoint.Client.Field.TypeShortDescription`, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.54.1.1.34 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See `Microsoft.SharePoint.Client.Field.ValidationFormula`, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.54.1.1.35 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See `Microsoft.SharePoint.Client.Field.ValidationMessage`, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

## 3.2.5.54.1.2 ObjectPath Properties

None.

## 3.2.5.54.2 Methods

### 3.2.5.54.2.1 Scalar Methods

#### 3.2.5.54.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

**3.2.5.54.2.1.2 Update****Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

**3.2.5.54.2.1.3 UpdateAndPushChanges****Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:***pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

**3.2.5.54.2.1.4 ValidateSetValue****Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <25>

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.54.2.2 ObjectPath Methods

None.

### 3.2.5.55 Microsoft.SharePoint.Client.FieldRatingScaleQuestionAnswer

**TypeId:** {9B88FE8E-47CD-4DDC-9D66-0D12D70DDE28}

**ShortName:** SP.FieldRatingScaleQuestionAnswer

Represents a specific question and answer within a rating scale field (2) of a list item.

#### 3.2.5.55.1 Properties

##### 3.2.5.55.1.1 Scalar Properties

###### 3.2.5.55.1.1.1 Answer

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the answer for a sub question. MUST be NULL if no answer has been provided for the sub-question within the rating scale field (2) for the list item this value is associated with.

###### 3.2.5.55.1.1.2 Question

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a sub-question within a rating scale.

###### 3.2.5.55.1.2 ObjectPath Properties

None.

### 3.2.5.56 Microsoft.SharePoint.Client.FieldStringValue

**TypeId:** {542FA9DF-AC22-4FDB-8BA3-DAB6060C2DE4}



**ShortName:** SP.FieldStringValues

Specifies a collection that contains key value pairs. The FieldStringValues type contains **CSOM expando fields**. The value type for the CSOM expando fields MUST be CSOM String.

### 3.2.5.56.1 Properties

#### 3.2.5.56.1.1 Scalar Properties

None.

#### 3.2.5.56.1.2 ObjectPath Properties

None.

### 3.2.5.56.2 Methods

#### 3.2.5.56.2.1 Scalar Methods

None.

#### 3.2.5.56.2.2 ObjectPath Methods

None.

### 3.2.5.57 Microsoft.SharePoint.Client.FieldText

**TypeId:** {47CBA3A7-3327-4FA1-AC10-73A7A182FE05}

**ShortName:** SP.FieldText

Specifies a field (2) that contains a single line of text.

#### 3.2.5.57.1 Properties

##### 3.2.5.57.1.1 Scalar Properties

###### 3.2.5.57.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

###### 3.2.5.57.1.1.2 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.57.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.57.1.1.4 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.57.1.1.5 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.57.1.1.6 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.57.1.1.7 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.57.1.1.8 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.57.1.1.9 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.57.1.1.10 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.57.1.1.11 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.57.1.1.12 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.57.1.1.13 MaxLength

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the maximum number of characters allowed in the value of the field (2).

Its value MUST be equal to or greater than 1. Its value MUST be equal to or less than 255.

### 3.2.5.57.1.1.14 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.57.1.1.15 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether or not the field (2) requires values.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.57.1.1.16 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value that is not a NULL or an empty value, and the list (1) is an external list.

### 3.2.5.57.1.1.17 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.57.1.1.18 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.57.1.1.19 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.57.1.1.20 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.57.1.1.21 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.57.1.1.22 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.57.1.1.23 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.57.1.1.24 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.57.1.1.25 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.57.1.1.26 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

## 3.2.5.57.1.2 ObjectPath Properties

None.

## 3.2.5.57.2 Methods

### 3.2.5.57.2.1 Scalar Methods

#### 3.2.5.57.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

#### 3.2.5.57.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

#### 3.2.5.57.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.57.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <26>

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.57.2.2 ObjectPath Methods

None.

### 3.2.5.58 Microsoft.SharePoint.Client.FieldType

**ShortName:** SP.FieldType

**Flag:** false

Specifies the type of the field (2), as specified in [\[MS-WSSTS\]](#) section 2.3.1.

#### 3.2.5.58.1 Field Values

##### 3.2.5.58.1.1 Invalid

**Value:** 0

It MUST NOT be used.

##### 3.2.5.58.1.2 Integer

**Value:** 1

Specifies that the field (2) contains an **integer** value.



### 3.2.5.58.1.3 Text

**Value:** 2

Specifies that the field (2) contains a single line of text.

### 3.2.5.58.1.4 Note

**Value:** 3

Specifies that the field (2) contains multiple lines of text.

### 3.2.5.58.1.5 DateTime

**Value:** 4

Specifies that the field (2) contains a date and time value or a date-only value.

### 3.2.5.58.1.6 Counter

**Value:** 5

Specifies that the field (2) contains a monotonically increasing integer.

### 3.2.5.58.1.7 Choice

**Value:** 6

Specifies that the field (2) contains a single value from a set of specified values.

### 3.2.5.58.1.8 Lookup

**Value:** 7

Specifies that the field (2) is a lookup field.

### 3.2.5.58.1.9 Boolean

**Value:** 8

Specifies that the field (2) contains a **Boolean** value.

### 3.2.5.58.1.10 Number

**Value:** 9

Specifies that the field (2) contains a **floating-point number** value.

### 3.2.5.58.1.11 Currency

**Value:** 10

Specifies that the field (2) contains a currency value.

### 3.2.5.58.1.12 URL

**Value:** 11

Specifies that the field (2) contains a **URI** and an optional description of the URI.

### 3.2.5.58.1.13 Computed

**Value:** 12

Specifies that the field (2) is a computed field.

### 3.2.5.58.1.14 Threading

**Value:** 13

Specifies that the field (2) indicates the thread for a **discussion item** in a threaded view of a discussion board.

### 3.2.5.58.1.15 Guid

**Value:** 14

Specifies that the field (2) contains a GUID value.

### 3.2.5.58.1.16 MultiChoice

**Value:** 15

Specifies that the field (2) contains one or more values from a set of specified values.

### 3.2.5.58.1.17 GridChoice

**Value:** 16

Specifies that the field (2) contains rating scale values for a survey list.

### 3.2.5.58.1.18 Calculated

**Value:** 17

Specifies that the field (2) is a calculated field.

### 3.2.5.58.1.19 File

**Value:** 18

Specifies that the field (2) contains the **leaf name** of a document as a value.

### 3.2.5.58.1.20 Attachments

**Value:** 19

Specifies that the field (2) indicates whether the list item has **attachments**.

### **3.2.5.58.1.21 User**

**Value:** 20

Specifies that the field (2) contains one or more users and groups (2) as values.

### **3.2.5.58.1.22 Recurrence**

**Value:** 21

Specifies that the field (2) indicates whether a meeting in a calendar list (1) recurs.

### **3.2.5.58.1.23 CrossProjectLink**

**Value:** 22

Specifies that the field (2) contains a link between projects in a Meeting Workspace site.

### **3.2.5.58.1.24 ModStat**

**Value:** 23

Specifies that the field (2) indicates **moderation status**.

### **3.2.5.58.1.25 Error**

**Value:** 24

Specifies that the type of the field (2) was set to an invalid value.

### **3.2.5.58.1.26 ContentTypeId**

**Value:** 25

Specifies that the field (2) contains a content type identifier as a value.

### **3.2.5.58.1.27 PageSeparator**

**Value:** 26

Specifies that the field (2) separates questions in a survey list onto multiple pages.

### **3.2.5.58.1.28 ThreadIndex**

**Value:** 27

Specifies that the field (2) indicates the position of a discussion item in a threaded view of a discussion board.

### **3.2.5.58.1.29 WorkflowStatus**

**Value:** 28

Specifies that the field (2) indicates the status of a **workflow instance** on a list item.

### 3.2.5.58.1.30 AllDayEvent

**Value:** 29

Specifies that the field (2) indicates whether a meeting in a calendar list (1) is an all-day event.

### 3.2.5.58.1.31 WorkflowEventType

**Value:** 30

Specifies that the field (2) contains the most recent **event (2)** in a workflow instance.

### 3.2.5.58.1.32 MaxItems

**Value:** 33

It MUST NOT be used.

### 3.2.5.58.1.33 Geolocation

**Value:** 31

Specifies that the field (2) contains geographical location values. [<27>](#)

### 3.2.5.58.1.34 OutcomeChoice

**Value:** 32

Specifies that the field (2) contains a single value from a set of user specified values used to determine the outcome of a task (2) list item. [<28>](#)

### 3.2.5.59 Microsoft.SharePoint.Client.FieldUrl

**TypeId:** {B1AE9217-E0B0-4E34-9604-BD2462647EE9}

**ShortName:** SP.FieldUrl

Specifies a field (2) that contains a URI.

#### 3.2.5.59.1 Properties

##### 3.2.5.59.1.1 Scalar Properties

###### 3.2.5.59.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

###### 3.2.5.59.1.1.2 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.59.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.59.1.1.4 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.59.1.1.5 DisplayFormat

**Type:** Microsoft.SharePoint.Client.UrlFieldFormatType

**Accessibility:** Read/Write

Specifies the display format for the value in the field (2).

### 3.2.5.59.1.1.6 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.59.1.1.7 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.59.1.1.8 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.59.1.1.9 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.59.1.1.10 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.59.1.1.11 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.59.1.1.12 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.59.1.1.13 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.59.1.1.14 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.59.1.1.15 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "true", and the list (1) is an external list.

### 3.2.5.59.1.1.16 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value that is not NULL or empty, and the list (1) is an external list.

**3.2.5.59.1.1.17 Scope****Type:** CSOM String**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).**3.2.5.59.1.1.18 Sealed****Type:** CSOM Boolean**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).**3.2.5.59.1.1.19 Sortable****Type:** CSOM Boolean**Accessibility:** Read OnlySee **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).**3.2.5.59.1.1.20 StaticName****Type:** CSOM String**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

**3.2.5.59.1.1.21 Title****Type:** CSOM String**Accessibility:** Read/WriteSee **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).



### 3.2.5.59.1.1.22 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.59.1.1.23 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.59.1.1.24 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.59.1.1.25 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.59.1.1.26 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.59.1.2 ObjectPath Properties

None.

### 3.2.5.59.2 Methods

#### 3.2.5.59.2.1 Scalar Methods

##### 3.2.5.59.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "false".

##### 3.2.5.59.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

##### 3.2.5.59.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

## Exceptions:

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "true".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "true".

### 3.2.5.59.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <29>

#### Parameters:

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.59.2.2 ObjectPath Methods

None.

### 3.2.5.60 Microsoft.SharePoint.Client.FieldUrlValue

**TypeId:** {FA8B44AF-7B43-43F2-904A-BD319497011E}

**ShortName:** SP.FieldUrlValue

Specifies the hyperlink and the description values for **FieldURL**.

#### 3.2.5.60.1 Properties

##### 3.2.5.60.1.1 Scalar Properties

###### 3.2.5.60.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description for the URI.

Its length MUST be equal to or less than 255.

### 3.2.5.60.1.1.2 Url

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URI.

Its length MUST be equal to or less than 255. It MUST be one of the following: NULL, empty, an absolute URL, or a server-relative URL.

### 3.2.5.60.1.2 ObjectPath Properties

None.

### 3.2.5.61 Microsoft.SharePoint.Client.FieldUser

**TypeId:** {EBD2FB89-E8A2-46C4-B317-9B2347121765}

**ShortName:** SP.FieldUser

Specifies a field (2) that contains a user.

#### 3.2.5.61.1 Properties

##### 3.2.5.61.1.1 Scalar Properties

###### 3.2.5.61.1.1.1 AllowDisplay

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether to display the name of the user in a survey list.

###### 3.2.5.61.1.1.2 AllowMultipleValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.AllowMultipleValues**, as specified in section [3.2.5.49.1.1.1](#).

###### 3.2.5.61.1.1.3 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

###### 3.2.5.61.1.1.4 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.61.1.1.5 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

### 3.2.5.61.1.1.6 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list (1) is an external list.

### 3.2.5.61.1.1.7 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.61.1.1.8 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.61.1.1.9 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.61.1.1.10 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the field (2) derives from a base field type.

### 3.2.5.61.1.1.11 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.61.1.1.12 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.61.1.1.13 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.61.1.1.14 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.61.1.1.15 IsRelationship

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.IsRelationship**, as specified in section [3.2.5.49.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is read, and the list (1) is an external list.

### 3.2.5.61.1.1.16 LookupField

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.LookupField**, as specified in section [3.2.5.49.1.1.15](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is read, and the list (1) is an external list.

### 3.2.5.61.1.1.17 LookupList

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.LookupList**, as specified in section [3.2.5.49.1.1.16](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is read, and the list (1) is an external list.

### 3.2.5.61.1.1.18 LookupWebId

**Type:** CSOM GUID

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.LookupWebId**, as specified in section [3.2.5.49.1.1.17](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is read, and the list (1) is an external list.

### 3.2.5.61.1.1.19 Presence

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether **presence (2)** is enabled on the field (2).

### 3.2.5.61.1.1.20 PrimaryFieldId

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.PrimaryFieldId**, as specified in section [3.2.5.49.1.1.18](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	When the list (1) that this field (2) belongs to is an external list.

### 3.2.5.61.1.1.21 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.



### 3.2.5.61.1.1.22 RelationshipDeleteBehavior

**Type:** Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**Accessibility:** Read/Write

Returns a **Microsoft.SharePoint.Client.FieldLookup.RelationshipDeleteBehavior** (section [3.2.5.49.1.1.20](#)) that represents the delete behavior of the lookup field.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is read, and the list (1) is an external list.

### 3.2.5.61.1.1.23 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to "TRUE", and the list (1) is an external list.

### 3.2.5.61.1.1.24 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type, as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value that is not NULL or an empty value, and the list (1) is an external list.

### 3.2.5.61.1.1.25 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.61.1.1.26 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.61.1.1.27 SelectionGroup

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the identifier of the group (2) whose members (1) can be selected as values of the field (2).

### 3.2.5.61.1.1.28 SelectionMode

**Type:** Microsoft.SharePoint.Client.FieldUserSelectionMode

**Accessibility:** Read/Write

Specifies whether users and groups (2) or only users can be selected.

### 3.2.5.61.1.1.29 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.61.1.1.30 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.61.1.1.31 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.61.1.1.32 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.61.1.1.33 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.61.1.1.34 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.61.1.1.35 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.61.1.1.36 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

### 3.2.5.61.1.1.37 Indexed

**Type:** CSOM Boolean

**Accessibility:** Read Only

A bit that specifies whether the field (2) is an indexed field.

### 3.2.5.61.1.2 ObjectPath Properties

None.

### 3.2.5.61.2 Methods

#### 3.2.5.61.2.1 Scalar Methods

##### 3.2.5.61.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	<b>CanBeDeleted</b> is "FALSE".

##### 3.2.5.61.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
-2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "TRUE".
-2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "TRUE".

##### 3.2.5.61.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is "TRUE".
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is "TRUE".

### 3.2.5.61.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. <30>

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.61.2.2 ObjectPath Methods

None.

### 3.2.5.62 Microsoft.SharePoint.Client.FieldUserSelectionMode

**ShortName:** SP.FieldUserSelectionMode

**Flag:** false

Specifies whether users and groups (2) or only users can be selected.

### 3.2.5.62.1 Field Values

#### 3.2.5.62.1.1 PeopleOnly

**Value:** 0

Specifies that only users can be selected.

#### 3.2.5.62.1.2 PeopleAndGroups

**Value:** 1

Specifies that users and groups (2) can be selected.

### 3.2.5.63 Microsoft.SharePoint.Client.FieldUserValue

**TypeId:** {C956AB54-16BD-4C18-89D2-996F57282A6F}

**ShortName:** SP.FieldUserValue

Specifies the value of a lookup field to user data for a list item.

#### 3.2.5.63.1 Properties

##### 3.2.5.63.1.1 Scalar Properties

###### 3.2.5.63.1.1.1 LookupId

**Type:** CSOM Int32

**Accessibility:** Read/Write

Gets or sets the user identifier (ID) that the value of a lookup field for a list item is referring to.

###### 3.2.5.63.1.1.2 LookupValue

**Type:** CSOM String

**Accessibility:** Read Only

Gets a description of the user that the value of a lookup field for a list item is referring to.

###### 3.2.5.63.1.2 ObjectPath Properties

None.

### 3.2.5.64 Microsoft.SharePoint.Client.File

**TypeId:** {DF28BE1E-74B5-4B21-B73A-2BBAC0A23D8A}

**ShortName:** SP.File

Represents a file in a site (2) that can be a Web Part Page, an item in a document library, or a file in a folder.

### 3.2.5.64.1 Properties

#### 3.2.5.64.1.1 Scalar Properties

##### 3.2.5.64.1.1.1 CheckInComment

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the comment used when a document is checked into a document library.

Its length MUST be equal to or less than 1023.

##### 3.2.5.64.1.1.2 CheckOutType

**Type:** Microsoft.SharePoint.Client.CheckOutType

**Accessibility:** Read Only

Specifies the type of **check out** on the file.

##### 3.2.5.64.1.1.3 CustomizedPageStatus

**Type:** Microsoft.SharePoint.Client.CustomizedPageStatus

**Accessibility:** Read Only

Specifies the customization status of the file.

##### 3.2.5.64.1.1.4 ETag

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the **ETag** (see [RFC2616](#)) value.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

##### 3.2.5.64.1.1.5 Exists

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the file exists.

##### 3.2.5.64.1.1.6 Level

**Type:** Microsoft.SharePoint.Client.FileLevel

**Accessibility:** Read Only

Specifies the **publishing level** of the file.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.7 MajorVersion

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the major version of the file.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.8 MinorVersion

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the minor version of the file.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.9 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the file name including the extension.

It MUST NOT be NULL. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.



### 3.2.5.64.1.1.10 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the file.

It MUST NOT be NULL. It MUST be a URL of server-relative form.

### 3.2.5.64.1.1.11 TimeCreated

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies when the file was created.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.12 TimeLastModified

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies when the file was last modified.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.13 Title

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name of the file.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.14 UIVersion

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the implementation-specific version identifier of the file.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.15 UIVersionLabel

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the implementation-specific version identifier of the file.

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.1.16 Length

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the size of the file in bytes, excluding the size of any Web Parts that are used in the file. [<31>](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.
-2147024891	System.UnauthorizedAccessException	Lack of permissions to perform the operation.

### 3.2.5.64.1.2 ObjectPath Properties

#### 3.2.5.64.1.2.1 Author

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who added the file.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.2.2 CheckedOutByUser

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who has checked out the file.

### 3.2.5.64.1.2.3 ListItemAllFields

**Type:** Microsoft.SharePoint.Client.ListItem

**Accessibility:** Read Only

Specifies the list item field (2) values for the list item corresponding to the file.

### 3.2.5.64.1.2.4 LockedByUser

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user that owns the current lock on the file.

MUST return null if there is no lock.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.2.5 ModifiedBy

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who last modified the file.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.1.2.6 Versions

**Type:** Microsoft.SharePoint.Client.FileVersionCollection

**Accessibility:** Read Only

Specifies a collection of file version objects (1) that represent the versions of the file.

It MUST NOT be NULL.

### 3.2.5.64.2 Methods

#### 3.2.5.64.2.1 Scalar Methods

##### 3.2.5.64.2.1.1 CheckIn

**Return Type:** None

Checks the file in to a document library based on the check-in type.

**Parameters:**

*comment*: Specifies a comment for the check-in.

Type: CSOM String

Its length MUST be equal to or less than 1023.

*checkInType*: Specifies the type of check-in.

Type: Microsoft.SharePoint.Client.CheckinType

##### 3.2.5.64.2.1.2 CheckOut

**Return Type:** None

Checks out the file from a document library .

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575306	Microsoft.SharePoint.SPFileCheckOutException	File is already checked out.
-2147024891	System.UnauthorizedAccessException	Check-out arguments are not valid.

##### 3.2.5.64.2.1.3 CopyTo

**Return Type:** None

Copies the file to the destination URL. The protocol server (2) MUST overwrite an existing file of the same name if *bOverwrite* is "true".

**Parameters:**

*strNewUrl*: Specifies the destination URL.

Type: CSOM String

It MUST NOT be NULL. It MUST be a URL of relative or absolute form.

*bOverWrite*: Specifies whether a file with the same name is overwritten.

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024729	Microsoft.SharePoint.SPFileLockException	File is not <b>locked</b>
-2147018894	Microsoft.SharePoint.SPFileLockException	A user other than the current user has a <b>shared lock</b> on the file
-2147018887	Microsoft.SharePoint.SPFileLockException	A user other than the current user has an <b>exclusive lock</b> on the file

### 3.2.5.64.2.1.4 DeleteObject

**Return Type:** None

Deletes the file.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2147018894	Microsoft.SharePoint.SPFileLockException	Shared lock on the file.
-2147018887	Microsoft.SharePoint.SPFileLockException	Exclusive lock on the file.
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.2.1.5 MoveTo

**Return Type:** None

Moves the file to the specified destination URL.

**Parameters:**

*newUrl*: Specifies the destination URL.

Type: CSOM String

It MUST NOT be NULL. It MUST be a URL of relative or absolute form.

*flags*: Specifies the kind of move operation.

Type: Microsoft.SharePoint.Client.MoveOperations

MUST NOT have flags other than **MoveOperations.Overwrite** or **MoveOperations.AllowBrokenThickets** set.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024729	Microsoft.SharePoint.SPFileLockException	File is not locked.
-2147018894	Microsoft.SharePoint.SPFileLockException	Shared lock on the file.
-2147018887	Microsoft.SharePoint.SPFileLockException	Exclusive lock on the file.

### 3.2.5.64.2.1.6 Publish

**Return Type:** None

Submits the file for content approval with the specified comment.

**Parameters:**

*comment*: Specifies the comment.

Type: CSOM String

Its length MUST be equal to or less than 1023.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The user can only publish or unpublish documents in a minor version enabled list (1). The user cannot perform this action on a checked out document. The user can only unpublish a major version or approved document.
-2147024729	Microsoft.SharePoint.SPFileLockException	The file is not locked
-2147018894	Microsoft.SharePoint.SPFileLockException	There is a shared lock on the file
-2147018887	Microsoft.SharePoint.SPFileLockException	There is an exclusive lock on the file

### 3.2.5.64.2.1.7 Recycle

**Return Type:** CSOM GUID

Moves the file to the Recycle Bin and returns the identifier of the new **Recycle Bin item**.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2147018894	Microsoft.SharePoint.SPFileLockException	Shared lock on the file.
-2147018887	Microsoft.SharePoint.SPFileLockException	Exclusive lock on the file.

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File cannot be found.

### 3.2.5.64.2.1.8 SaveBinary

**Return Type:** None

Saves the specified file into a document library.

**Parameters:**

*parameters:* An object (1) to facilitate updating the content of a file.

Type: Microsoft.SharePoint.Client.FileSaveBinaryInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147018894	Microsoft.SharePoint.SPFileLockException	Shared lock is on the file

### 3.2.5.64.2.1.9 UndoCheckOut

**Return Type:** None

Reverts an existing checkout for the file.

**Parameters:** None

### 3.2.5.64.2.1.10 UnPublish

**Return Type:** None

Removes the file from content approval or unpublishes a major version.

**Parameters:**

*comment:* Specifies the comment for **UnPublish**.

Type: CSOM String

Its length MUST be equal to or less than 1023.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024729	Microsoft.SharePoint.SPFileLockException	File is not locked
-2147018894	Microsoft.SharePoint.SPFileLockException	Shared lock on the file
-2147018887	Microsoft.SharePoint.SPFileLockException	Exclusive lock on the file

### 3.2.5.64.2.1.11 OpenBinaryStream

**Return Type:** CSOM Stream

Opens the file as a **stream (1)**.<32>

**Parameters:** None

### 3.2.5.64.2.1.12 SaveBinaryStream

**Return Type:** None

Saves the file in binary format.<33>

**Parameters:**

*file:* A System.IO.Stream object that contains the file.

Type: CSOM Stream

## 3.2.5.64.2.2 ObjectPath Methods

### 3.2.5.64.2.2.1 GetLimitedWebPartManager

**Return Type:** Microsoft.SharePoint.Client.WebParts.LimitedWebPartManager

Specifies the controls used to access, modify, or add Web Parts associated with this Web Part Page and view. A reference (3) to the requested SP.WebParts.LimitedWebPartManager is returned.

**Parameters:**

*scope:* Specifies the **personalization scope** value that depicts how Web Parts are viewed on the Web Part Page.

Type: Microsoft.SharePoint.Client.WebParts.PersonalizationScope

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	URL MUST have an extension of ".aspx".
-2147024894	System.IO.FileNotFoundException	New initialized instance of Web Part manager MUST exist

## 3.2.5.65 Microsoft.SharePoint.Client.FileCollection

**TypeId:** {D367B17C-170B-4691-A1E3-8BCCF7686CE4}

**ShortName:** SP.FileCollection

A collection of file objects (1).



### 3.2.5.65.1 Properties

#### 3.2.5.65.1.1 Scalar Properties

None.

#### 3.2.5.65.1.2 ObjectPath Properties

None.

### 3.2.5.65.2 Methods

#### 3.2.5.65.2.1 Scalar Methods

None.

#### 3.2.5.65.2.2 ObjectPath Methods

##### 3.2.5.65.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.File

Adds a file to the collection based on provided file creation information. A reference (3) to the SP.File that was added is returned.

**Parameters:**

*parameters:* File creation information

Type: Microsoft.SharePoint.Client.FileCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024729	Microsoft.SharePoint.SPFileLockException	The file to be added or overwritten in the collection is not locked.
- 2147018894	Microsoft.SharePoint.SPFileLockException	There is a shared lock on the file to be added or overwritten in the collection.
- 2147018887	Microsoft.SharePoint.SPFileLockException	There is an exclusive lock on the file to be added or overwritten in the collection.

##### 3.2.5.65.2.2.2 AddTemplateFile

**Return Type:** Microsoft.SharePoint.Client.File

Adds an **uncustomized** file to an existing list (1) or document library. A reference (3) to the SP.File that was added is returned.

**Parameters:**

*urlOfFile:* The server-relative URL of the file.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*templateFileType*: Specifies the template file type used for file creation.

Type: Microsoft.SharePoint.Client.TemplateFileType

The *templateFileType* MUST be of standard or Wiki site (2) or form (1) type.

### 3.2.5.66 Microsoft.SharePoint.Client.FileCreationInformation

**TypeId**: {F5C8173C-CAE6-4469-A7AF-3879CA3C617C}

**ShortName**: SP.FileCreationInformation

Represents a file to be added via **FileCollection.Add** as defined in section [3.2.5.65.2.2.1](#).

#### 3.2.5.66.1 Properties

##### 3.2.5.66.1.1 Scalar Properties

###### 3.2.5.66.1.1.1 Content

**Type**: CSOM Binary

**Accessibility**: Read/Write

Specifies the binary content of the file to be added.

###### 3.2.5.66.1.1.2 Overwrite

**Type**: CSOM Boolean

**Accessibility**: Read/Write

Specifies whether to overwrite an existing file with the same name and in the same location as the one being added.

###### 3.2.5.66.1.1.3 Url

**Type**: CSOM String

**Accessibility**: Read/Write

Specifies the URL of the file to be added.

It MUST NOT be NULL. It MUST be a URL of relative or absolute form. Its length MUST be equal to or greater than 1.

###### 3.2.5.66.1.1.4 ContentStream

**Type**: CSOM Stream

**Accessibility**: Read/Write

The contents of the file as a stream (1).[<34>](#)

### 3.2.5.66.1.2 ObjectPath Properties

None.

### 3.2.5.67 Microsoft.SharePoint.Client.FileLevel

**ShortName:** SP.FileLevel

**Flag:** false

Specifies the publishing level for a file.

#### 3.2.5.67.1 Field Values

##### 3.2.5.67.1.1 Published

**Value:** 1

Specifies the file is a **published version**.

##### 3.2.5.67.1.2 Draft

**Value:** 2

Specifies the file is a draft.

##### 3.2.5.67.1.3 Checkout

**Value:** 255

Specifies the file is checked out to the current user.

### 3.2.5.68 Microsoft.SharePoint.Client.FileSaveBinaryInformation

**TypeId:** {C3DE0784-43E6-4F12-BD0C-F0D9A34EBF93}

**ShortName:** SP.FileSaveBinaryInformation

Contains information necessary for saving a file.

#### 3.2.5.68.1 Properties

##### 3.2.5.68.1.1 Scalar Properties

###### 3.2.5.68.1.1.1 CheckRequiredFields

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether required fields (2) in the list (1) are validated when the file is saved.

If there are required fields (2) that have no value set, the save operation MUST fail.

### 3.2.5.68.1.1.2 Content

**Type:** CSOM Binary

**Accessibility:** Read/Write

Specifies the content of the file.

The length MUST NOT be larger than 1024 \* 1024 \* maximum file size for a **Web application (1)**.

### 3.2.5.68.1.1.3 ETag

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **ETag** value, as specified in see [\[RFC2616\]](#).

If the **ETag** value is specified as not NULL, and no matching **ETag** can be found on the server (2) the save operation MUST fail.

### 3.2.5.68.1.1.4 ContentStream

**Type:** CSOM Stream

**Accessibility:** Read/Write

The contents of the file as a stream (1).[<35>](#)

### 3.2.5.68.1.2 ObjectPath Properties

None.

## 3.2.5.69 Microsoft.SharePoint.Client.FileSystemObjectType

**ShortName:** SP.FileSystemObjectType

**Flag:** false

Specifies the file system object (1) type.

### 3.2.5.69.1 Field Values

#### 3.2.5.69.1.1 Invalid

**Value:** -1

It MUST NOT be used.

#### 3.2.5.69.1.2 File

**Value:** 0

Specifies the object (1) is a file.

### 3.2.5.69.1.3 Folder

**Value:** 1

Specifies the object (1) is a folder.

### 3.2.5.69.1.4 Web

**Value:** 2

Specifies the object (1) is a site (2).

### 3.2.5.70 Microsoft.SharePoint.Client.FileVersion

**TypeId:** {96E4BC1B-E67F-4967-9327-36B79E20AEBC}

**ShortName:** SP.FileVersion

Represents a version of a file object (1).

#### 3.2.5.70.1 Properties

##### 3.2.5.70.1.1 Scalar Properties

###### 3.2.5.70.1.1.1 CheckInComment

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the check-in comment.

It MUST NOT be NULL. Its length MUST be equal to or less than 1023.

###### 3.2.5.70.1.1.2 Created

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the creation date and time for the file version.

###### 3.2.5.70.1.1.3 ID

**Type:** CSOM Int32

**Accessibility:** Read Only

Gets the internal identifier for the file version.

###### 3.2.5.70.1.1.4 IsCurrentVersion

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the file version is the **current version**.

### 3.2.5.70.1.1.5 Url

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the relative URL of the file version based on the URL for the site (2) or subsite.

It MUST NOT be empty. It MUST be a URL of relative form.

### 3.2.5.70.1.1.6 VersionLabel

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the implementation specific identifier of the file.

It MUST NOT be NULL.

## 3.2.5.70.1.2 ObjectPath Properties

### 3.2.5.70.1.2.1 CreatedBy

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user that represents the person who created the file version.

## 3.2.5.70.2 Methods

### 3.2.5.70.2.1 Scalar Methods

#### 3.2.5.70.2.1.1 DeleteObject

**Return Type:** None

Deletes the file version. [<36>](#)

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024846	Microsoft.SharePoint.SPException	Recycle Bin is not enabled.
- 2147024891	System.UnauthorizedAccessException	The protocol client does not have permissions to update this file version.

### 3.2.5.70.2.2 ObjectPath Methods

None.

### 3.2.5.71 Microsoft.SharePoint.Client.FileVersionCollection

**TypeId:** {3826E282-67A6-4861-88FB-474E8AAC897B}

**ShortName:** SP.FileVersionCollection

Represents a collection of **FileVersion** objects (1).

#### 3.2.5.71.1 Properties

##### 3.2.5.71.1.1 Scalar Properties

None.

##### 3.2.5.71.1.2 ObjectPath Properties

None.

#### 3.2.5.71.2 Methods

##### 3.2.5.71.2.1 Scalar Methods

###### 3.2.5.71.2.1.1 DeleteAll

**Return Type:** None

Deletes all the file version objects (1) in the collection.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575312	Microsoft.SharePoint.SPException	Specified file URL is invalid.

###### 3.2.5.71.2.1.2 DeleteByID

**Return Type:** None

Deletes the specified version of the file.

**Parameters:**

*vid*: Specifies the file version identifier to delete.

Type: CSOM Int32

The *vid* MUST NOT be zero.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	File with specified version identifier cannot be found.

### 3.2.5.71.2.1.3 DeleteByLabel

**Return Type:** None

Deletes the file version object (1) with the specified version label.

**Parameters:**

*versionlabel*: Specifies the version label.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Version label MUST be the return value from VersionLabel property of a Microsoft.Sharepoint.Client.FileVersion object (1).

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	Specified version label is invalid.

### 3.2.5.71.2.1.4 RestoreByLabel

**Return Type:** None

Creates a new file version from the file specified by the version label.

**Parameters:**

*versionlabel*: Specifies the version label.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Version label MUST be the return value from VersionLabel property of a **Microsoft.Sharepoint.Client.FileVersion** object (1).

### 3.2.5.71.2.2 ObjectPath Methods

#### 3.2.5.71.2.2.1 GetById

**Return Type:** Microsoft.SharePoint.Client.FileVersion

Returns the file version object (1) with the specified version label. <37>

**Parameters:**

*versionid*: Specifies the version label.

Type: CSOM Int32



### 3.2.5.72 Microsoft.SharePoint.Client.Folder

**TypeId:** {DBE8175A-505D-4EFF-BEC4-6C809709808B}

**ShortName:** SP.Folder

Represents a list folder on a site (2).

The ContentTypeOrder and UniqueContentTypeOrder properties are not included in the **default scalar property set** for this type.

#### 3.2.5.72.1 Properties

##### 3.2.5.72.1.1 Scalar Properties

###### 3.2.5.72.1.1.1 ContentTypeOrder

**Type:** CSOM Array

**Accessibility:** Read Only

Specifies the **content type order** for the list folder.

It MUST be an array of content type identifiers.

###### 3.2.5.72.1.1.2 ItemCount

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the count of items in the list folder.

###### 3.2.5.72.1.1.3 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the list folder name.

It MUST NOT be NULL. Its length MUST be equal to or less than 256.

###### 3.2.5.72.1.1.4 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the list folder.

It MUST NOT be NULL. It MUST be a URL of server-relative form.

###### 3.2.5.72.1.1.5 UniqueContentTypeOrder

**Type:** CSOM Array

**Accessibility:** Read/Write

Specifies the content type order for the list folder.

It MUST be an array of content type identifiers.

It MUST return the same value as the ContentTypeOrder.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Operation is not valid, because of the current state of the object (1).

### 3.2.5.72.1.1.6 WelcomePage

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the server-relative URL for the list folder **Welcome page**.

It MUST NOT be NULL.

### 3.2.5.72.1.2 ObjectPath Properties

#### 3.2.5.72.1.2.1 Files

**Type:** Microsoft.SharePoint.Client.FileCollection

**Accessibility:** Read Only

Specifies the collection of files contained in the list folder.

It MUST NOT be NULL.

#### 3.2.5.72.1.2.2 Folders

**Type:** Microsoft.SharePoint.Client.FolderCollection

**Accessibility:** Read Only

Specifies the collection of list folders contained within the list folder.

It MUST NOT be NULL.

#### 3.2.5.72.1.2.3 ParentFolder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Specifies the list folder.

### 3.2.5.72.1.2.4 Properties

**Type:** Microsoft.SharePoint.Client.PropertyValues

**Accessibility:** Read Only

Returns the properties for the list folder. <38>

It MUST NOT be NULL.

### 3.2.5.72.1.2.5 ListItemAllFields

**Type:** Microsoft.SharePoint.Client.ListItem

**Accessibility:** Read Only

Gets the Microsoft.SharePoint.Client.ListItem (section [3.2.5.87](#)) object (1) corresponding to the list folder, if the list folder belongs to a document library. <39>

### 3.2.5.72.2 Methods

#### 3.2.5.72.2.1 Scalar Methods

##### 3.2.5.72.2.1.1 DeleteObject

**Return Type:** None

Deletes the list folder.

**Parameters:** None

##### 3.2.5.72.2.1.2 Recycle

**Return Type:** CSOM GUID

Moves the list folder to the Recycle Bin and returns the identifier of the new Recycle Bin item.

**Parameters:** None

##### 3.2.5.72.2.1.3 Update

**Return Type:** None

Updates the list folder with changes that have been made to the list folder properties.

**Parameters:** None

#### 3.2.5.72.2.2 ObjectPath Methods

None.

### 3.2.5.73 Microsoft.SharePoint.Client.FolderCollection

**TypeId:** {B6B425AA-9E17-4205-A4AA-B82C2C3F884D}

**ShortName:** SP.FolderCollection

Represents a collection of list folder objects (1).

### 3.2.5.73.1 Properties

#### 3.2.5.73.1.1 Scalar Properties

None.

#### 3.2.5.73.1.2 ObjectPath Properties

None.

### 3.2.5.73.2 Methods

#### 3.2.5.73.2.1 Scalar Methods

None.

#### 3.2.5.73.2.2 ObjectPath Methods

##### 3.2.5.73.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.Folder

Adds the list folder to the collection of list folders and returns the added list folder.

**Parameters:**

*strUrl*: Specifies the URL of the list folder.

Type: CSOM String

##### 3.2.5.73.2.2.2 GetByUrl

**Return Type:** Microsoft.SharePoint.Client.Folder

Returns the list folder with the specified URL. [<40>](#)

**Parameters:**

*urlOfFolder*: Specifies the URL of the list folder. The URL MUST be an absolute URL, a server-relative, a **site-relative URL** relative to the site (2) containing the collection of list folders, or relative to the list folder that directly contains this collection of list folders.

Type: CSOM String

### 3.2.5.74 Microsoft.SharePoint.Client.Form

**TypeId:** {50AACA3C-FA54-47D2-B946-A2839EE956A9}

**ShortName:** SP.Form

Specified in [\[MS-WSSTS\]](#) section 2.1.2.15.4.

### 3.2.5.74.1 Properties

#### 3.2.5.74.1.1 Scalar Properties

##### 3.2.5.74.1.1.1 FormType

**Type:** Microsoft.SharePoint.Client.PageType

**Accessibility:** Read Only

Specifies the **page type** of the list form.

##### 3.2.5.74.1.1.2 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the list form.

It MUST NOT be an empty GUID.

##### 3.2.5.74.1.1.3 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the list form.

It MUST NOT be empty. It MUST be a URL of server-relative form.

#### 3.2.5.74.1.2 ObjectPath Properties

None.

### 3.2.5.74.2 Methods

#### 3.2.5.74.2.1 Scalar Methods

None.

#### 3.2.5.74.2.2 ObjectPath Methods

None.

### 3.2.5.75 Microsoft.SharePoint.Client.FormCollection

**TypeId:** {078611EA-CE4D-45C0-9B7A-D4B1B46CC327}

**ShortName:** SP.FormCollection

Specifies a collection of list forms for a list (1).

### 3.2.5.75.1 Properties

#### 3.2.5.75.1.1 Scalar Properties

None.

#### 3.2.5.75.1.2 ObjectPath Properties

None.

### 3.2.5.75.2 Methods

#### 3.2.5.75.2.1 Scalar Methods

None.

#### 3.2.5.75.2.2 ObjectPath Methods

##### 3.2.5.75.2.2.1 GetByPageType

**Return Type:** Microsoft.SharePoint.Client.Form

Returns the list form with the specified page type. If there is more than one list form with the specified page type, the protocol server (2) MUST return one list form as determined by the protocol server (2). If there is no list form with the specified page type, the server (2) MUST return NULL.

**Parameters:**

*formType*: Specifies the page type of the list form to return. It MUST be DISPLAYFORM, EDITFORM or NEWFORM.

Type: Microsoft.SharePoint.Client.PageType

##### 3.2.5.75.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.Form

Returns the list form with the specified identifier.

**Parameters:**

*id*: Specifies the identifier of the list form.

Type: CSOM GUID

### 3.2.5.76 Microsoft.SharePoint.Client.Group

**TypeId:** {E54AD5F1-CE4E-453B-B7F7-AEA6556C9C40}

**ShortName:** SP.Group

Represents a collection of users.

The CanCurrentUserEditMembership, CanCurrentUserManageGroup and CanCurrentUserViewMembership properties are not included in the default scalar property set for this type.

### 3.2.5.76.1 Properties

#### 3.2.5.76.1.1 Scalar Properties

##### 3.2.5.76.1.1.1 AllowMembersEditMembership

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a member (1) of the group (2) can add and remove members (1) from the group (2).

##### 3.2.5.76.1.1.2 AllowRequestToJoinLeave

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether to allow users to request to join or leave in the group (2).

##### 3.2.5.76.1.1.3 AutoAcceptRequestToJoinLeave

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether requests to join or leave the group (2) are automatically accepted.

##### 3.2.5.76.1.1.4 CanCurrentUserEditMembership

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the current user can add and remove members (1) from the group (2).

##### 3.2.5.76.1.1.5 CanCurrentUserManageGroup

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the current user can change settings on the group (2).

##### 3.2.5.76.1.1.6 CanCurrentUserViewMembership

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the current user can view the **membership** of the group (2).

##### 3.2.5.76.1.1.7 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description for the group (2).

#### **3.2.5.76.1.1.8 Id**

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the identifier for the group (2).

#### **3.2.5.76.1.1.9 LoginName**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the group (2). This is the same value as returned by the **Title** property.

Its length **MUST** be equal to or less than 251.

#### **3.2.5.76.1.1.10 OnlyAllowMembersViewMembership**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether viewing the membership of the group (2) is restricted to members (1) of the group (2).

#### **3.2.5.76.1.1.11 OwnerTitle**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the **owner** of the group (2).

#### **3.2.5.76.1.1.12 PrincipalType**

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of **principal (1)** represented by this object (1).

#### **3.2.5.76.1.1.13 RequestToJoinLeaveEmailSetting**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **e-mail address** to which requests to join or leave the group (2) are sent.



### 3.2.5.76.1.1.14 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of a group (2).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

### 3.2.5.76.1.1.15 IsHiddenInUI

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Principal.IsHiddenInUI**, as specified in section [3.2.5.100.1.1.5.<41>](#)

## 3.2.5.76.1.2 ObjectPath Properties

### 3.2.5.76.1.2.1 Owner

**Type:** Microsoft.SharePoint.Client.Principal

**Accessibility:** Read/Write

Specifies the owner of the group (2).

### 3.2.5.76.1.2.2 Users

**Type:** Microsoft.SharePoint.Client.UserCollection

**Accessibility:** Read Only

Specifies the collection of members (1) for this group (2).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	Cannot initialize group (2) data.

## 3.2.5.76.2 Methods

### 3.2.5.76.2.1 Scalar Methods

#### 3.2.5.76.2.1.1 Update

**Return Type:** None

Updates group (2) properties after changes have been made.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPDistributionGroupException	Distribution group (2) member (1) resynchronization or properties update fails.

### 3.2.5.76.2.2 ObjectPath Methods

None.

### 3.2.5.77 Microsoft.SharePoint.Client.GroupCollection

**TypeId:** {0B9F0E6C-2C15-425E-B0B2-961F78BF1ECF}

**ShortName:** SP.GroupCollection

Represents a collection of group (2) objects (1).

#### 3.2.5.77.1 Properties

##### 3.2.5.77.1.1 Scalar Properties

None.

##### 3.2.5.77.1.2 ObjectPath Properties

None.

#### 3.2.5.77.2 Methods

##### 3.2.5.77.2.1 Scalar Methods

###### 3.2.5.77.2.1.1 Remove

**Return Type:** None

Removes the specified group (2) from the collection.

**Parameters:**

*group*: Specifies the group (2) to be removed.

Type: Microsoft.SharePoint.Client.Group

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Cannot remove users with unique role assignment permissions

Error Code	Error Type Name	Condition
-1	System.Security.SecurityException	Access denied when updating farm administrators group (2)

### 3.2.5.77.2.1.2 RemoveById

**Return Type:** None

Removes the cross-site group with the specified member identifier from the collection. [<42>](#)

**Parameters:**

*id*: Specifies the member identifier.

Type: CSOM Int32

### 3.2.5.77.2.1.3 RemoveByLoginName

**Return Type:** None

Removes the cross-site group with the specified name from the collection. [<43>](#)

**Parameters:**

*name*: A string that contains the name of the group.

Type: CSOM String

### 3.2.5.77.2.2 ObjectPath Methods

#### 3.2.5.77.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.Group

Adds a group (2) to the collection. A reference (3) to the SP.Group that was added is returned.

**Parameters:**

*parameters*: Specifies an object (1) to facilitate creation of a group (2).

Type: Microsoft.SharePoint.Client.GroupCreationInformation

It MUST NOT be NULL.

#### 3.2.5.77.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.Group

Returns a group (2) from the collection based on the identifier of the group (2).

**Parameters:**

*id*: Specifies the member (1) identifier.

Type: CSOM Int32

### 3.2.5.77.2.2.3 GetByName

**Return Type:** Microsoft.SharePoint.Client.Group

Returns a group (2) from the collection based on the name of the group (2). <44>

**Parameters:**

*name:* Specifies the group (2) name.

Type: CSOM String

### 3.2.5.78 Microsoft.SharePoint.Client.GroupCreationInformation

**TypeId:** {9FD1540E-59E6-47FA-9A00-5173C9C35785}

**ShortName:** SP.GroupCreationInformation

An object (1) used to facilitate creation of a group (2).

#### 3.2.5.78.1 Properties

##### 3.2.5.78.1.1 Scalar Properties

###### 3.2.5.78.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read/Write

The description of the group (2) to be created.

Its length MUST be equal to or less than 512.

###### 3.2.5.78.1.1.2 Title

**Type:** CSOM String

**Accessibility:** Read/Write

The name of the group (2) to be created.

It MUST NOT be NULL. Its length MUST be equal to or less than 255. It MUST NOT be empty.

It MUST conform to the following ABNF as defined in [\[RFC5234\]](#):

Title = 1\*1 (DIGIT/ALPHA/"\_"/"."/"~"/"&"/"%"/"!/"/"("/)"/"{"}/"}")\*(DIGIT/ALPHA/SP/"\_"/"."/"~"/"&"/"%"/"!/"/"("/)"/"{"}/"}")

###### 3.2.5.78.1.2 ObjectPath Properties

None.

### 3.2.5.79 Microsoft.SharePoint.Client.List

**TypeId:** {D89F0B18-614E-4B4A-BAC0-FD6142B55448}

**ShortName:** SP.List

Specifies a list (1) on a site (2).

The **BrowserFileHandling**, **DataSource**, **EffectiveBasePermissions**, **EffectiveBasePermissionsForUI**, **HasUniqueRoleAssignments**, **IsSiteAssetsLibrary**, **OnQuickLaunch**, **SchemaXml**, **ValidationFormula** and **ValidationMessage** properties are not included in the default scalar property set for this type.

### 3.2.5.79.1 Properties

#### 3.2.5.79.1.1 Scalar Properties

##### 3.2.5.79.1.1.1 AllowContentTypes

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list (1) supports content types.

##### 3.2.5.79.1.1.2 BaseTemplate

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the **list server template** of the list (1).

Its value **MUST** be equal to or greater than 0. Its value **MUST** be equal to or less than 2147483647.

##### 3.2.5.79.1.1.3 BaseType

**Type:** Microsoft.SharePoint.Client.BaseType

**Accessibility:** Read Only

Specifies the base type of the list (1).

It **MUST** be one of the following values: **GenericList**, **DocumentLibrary**, **DiscussionBoard**, **Survey**, or **Issue**.

##### 3.2.5.79.1.1.4 BrowserFileHandling

**Type:** Microsoft.SharePoint.Client.BrowserFileHandling

**Accessibility:** Read Only

Specifies the override at the list (1) level for the **BrowserFileHandling** property of the Web application (1). If the **BrowserHandling** property of the Web application (1) is **BrowserFileHandling.Strict**, then this setting **MUST** be ignored. If the **BrowserHandling** property of the Web application (1) is **BrowserFileHandling.Permissive**, then this setting **MUST** be respected.

##### 3.2.5.79.1.1.5 ContentTypesEnabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether content types are enabled for the list (1).

#### 3.2.5.79.1.1.6 Created

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies when the list (1) was created.

#### 3.2.5.79.1.1.7 DataSource

**Type:** Microsoft.SharePoint.Client.ListDataSource

**Accessibility:** Read Only

Specifies the data source (1) of an external list. If **HasExternalDataSource** is **FALSE**, the server (2) MUST return NULL.

#### 3.2.5.79.1.1.8 DefaultContentApprovalWorkflowId

**Type:** CSOM GUID

**Accessibility:** Read/Write

Specifies the default **workflow identifier** for content approval on the list (1). It MUST be an **empty GUID** if there is no default content approval **workflow (2)**.

#### 3.2.5.79.1.1.9 DefaultDisplayFormUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the location of the default display form for the list (1).

It MUST NOT be NULL. It MUST NOT be empty. The client MUST set a server-relative URL and the server (2) MUST return a site-relative URL.

#### 3.2.5.79.1.1.10 DefaultEditFormUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL of the edit form to use for list items in the list (1).

It MUST NOT be NULL. It MUST NOT be empty. The client MUST set a server-relative URL and the server (2) MUST return a site-relative URL.

#### 3.2.5.79.1.1.11 DefaultNewFormUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the location of the default new form for the list (1).

It MUST NOT be NULL. It MUST NOT be empty. The client MUST set a server-relative URL and the server (2) MUST return a site-relative URL.

#### **3.2.5.79.1.1.12 DefaultViewUrl**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the **default view** for the list (1).

It MUST NOT be NULL. It MUST NOT be empty. It MUST be a URL of server-relative form.

#### **3.2.5.79.1.1.13 Description**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description of the list (1).

It MUST NOT be NULL.

#### **3.2.5.79.1.1.14 Direction**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the reading order of the list (1).

It MUST conform to the following ABNF as defined in [\[RFC5234\]](#): Direction = "NONE" | "LTR" | "RTL".

#### **3.2.5.79.1.1.15 DocumentTemplateUrl**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the server-relative URL of the document template (1) for the list (1). It MUST be NULL if **BaseType** is not **DocumentLibrary**.

It MUST NOT be empty. It MUST be a URL of server-relative form.

#### **3.2.5.79.1.1.16 DraftVersionVisibility**

**Type:** Microsoft.SharePoint.Client.DraftVisibilityType

**Accessibility:** Read/Write

Specifies the minimum permission required to view minor versions and drafts within the list (1).

### 3.2.5.79.1.1.17 EffectiveBasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the effective permissions on the list (1) that are assigned to the current user.

It MUST NOT be NULL.

### 3.2.5.79.1.1.18 EnableAttachments

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether **list item attachments** are enabled for the list (1).

### 3.2.5.79.1.1.19 EnableFolderCreation

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether new list folders can be added to the list (1).

### 3.2.5.79.1.1.20 EnableMinorVersions

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether minor versions are enabled for the list (1).

### 3.2.5.79.1.1.21 EnableModeration

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether content approval is enabled for the list (1).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to <b>TRUE</b> and the list (1) is an external list.

### 3.2.5.79.1.1.22 EnableVersioning

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether **historical versions** of list items and documents can be created in the list (1).

**Exceptions:**



Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to TRUE and the list (1) is an external list.

### 3.2.5.79.1.1.23 ForceCheckout

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether check out is required when adding or editing documents in the list (1).

### 3.2.5.79.1.1.24 HasExternalDataSource

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list (1) is an external list.

### 3.2.5.79.1.1.25 HasUniqueRoleAssignments

**Type:** CSOM Boolean

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.SecurableObject.HasUniqueRoleAssignments (section [3.2.5.118.1.1.1](#)).

### 3.2.5.79.1.1.26 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list (1) is a hidden list (1). If the value is set to **TRUE**, the server (2) **MUST** set the **OnQuickLaunch** property of the list (1) to **FALSE**.

### 3.2.5.79.1.1.27 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the list identifier.

It **MUST NOT** be an empty GUID.

### 3.2.5.79.1.1.28 ImageUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL for the icon of the list (1).

It MUST NOT be NULL. Its length MUST be equal to or less than 255. It MUST be a server-relative URL or an absolute URL.

### 3.2.5.79.1.1.29 **IsApplicationList**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies a flag that a client application can use to determine whether to display the list (1).

### 3.2.5.79.1.1.30 **IsCatalog**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list (1) is a **gallery (1)**.

### 3.2.5.79.1.1.31 **IsSiteAssetsLibrary**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list (1) is designated as a default asset location for images or other files which the users upload to their wiki pages.

### 3.2.5.79.1.1.32 **ItemCount**

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of list items in the list (1).

It MUST be greater than or equal to zero.

### 3.2.5.79.1.1.33 **LastItemDeletedDate**

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the last time a list item was deleted from the list (1). It MUST return **Created** if no list item has been deleted from the list (1) yet.

### 3.2.5.79.1.1.34 **LastItemModifiedDate**

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the last time a list item, field (2), or property of the list (1) was modified. It MUST return **Created** if the list (1) has not been modified.

### 3.2.5.79.1.1.35 MultipleDataList

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list (1) in a Meeting Workspace site contains data for multiple meeting instances within the site (2). It MUST be **FALSE** for a list (1) that is not in a Meeting Workspace site.

### 3.2.5.79.1.1.36 NoCrawl

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies that the **crawler** MUST NOT **crawl** the list (1).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is set to <b>TRUE</b> and the list (1) is an external list.

### 3.2.5.79.1.1.37 OnQuickLaunch

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list (1) appears on the **Quick Launch** of the site (2). If the value is set to **TRUE**, the protocol server (2) MUST set the **Hidden** property of the list (1) to **FALSE**.

### 3.2.5.79.1.1.38 ParentWebUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the site (2) that contains the list (1).

It MUST be a URL of server-relative form.

### 3.2.5.79.1.1.39 SchemaXml

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the **list schema** of the list (1).

It MUST NOT be NULL. It MUST NOT be empty. It MUST be an XML document that conforms to the **ListDefinition** type, as specified in [\[MS-WSSCAML\]](#) section 2.3.2.6.

### 3.2.5.79.1.1.40 ServerTemplateCanCreateFolders

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the **list template** the list (1) is based on allows the creation of folders.

### 3.2.5.79.1.1.41 TemplateFeatureId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the feature identifier of the feature that contains the list schema for the list (1). It MUST be an empty GUID if the list schema for the list (1) is not contained within a feature.

### 3.2.5.79.1.1.42 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name of the list (1).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

### 3.2.5.79.1.1.43 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the data validation criteria for a list item.

It MUST NOT be NULL. Its length MUST be equal to or less than 1023.

### 3.2.5.79.1.1.44 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the error message returned when data validation fails for a list item.

It MUST NOT be NULL. Its length MUST be equal to or less than 1024.

### 3.2.5.79.1.1.45 EntityTypename

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the type name of the list (1).<45>

### 3.2.5.79.1.1.46 ListItemEntityTypeFullName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the full type name of the list item. <46>

### 3.2.5.79.1.1.47 IrmEnabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Gets or sets a **Boolean** value that specifies whether **Information Rights Management (IRM)** is enabled for the list (1). <47>

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	External list (1) does not support setting the <b>IrmEnabled</b> property.

### 3.2.5.79.1.1.48 IrmExpire

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether Information Rights Management (IRM) expiration is enabled for the list (1). <48>

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	External list (1) does not support setting the <b>IrmExpire</b> property.

### 3.2.5.79.1.1.49 IrmReject

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether Information Rights Management (IRM) rejection is enabled for the list (1). <49>

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	External list (1) does not support setting the <b>IrmReject</b> property.

### 3.2.5.79.1.1.50 EffectiveBasePermissionsForUI

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the effective base permissions for the current user, as they should be displayed in user interface (UI). [<50>](#) If the list is not in read-only UI mode, the value of **EffectiveBasePermissionsForUI** MUST be the same as the value of **EffectiveBasePermissions** (section [3.2.5.79.1.1.17](#)). If the list is in read-only UI mode, the value of **EffectiveBasePermissionsForUI** MUST be a subset of the value of **EffectiveBasePermissions**.

It MUST NOT be NULL.

### 3.2.5.79.1.2 ObjectPath Properties

#### 3.2.5.79.1.2.1 ContentTypes

**Type:** Microsoft.SharePoint.Client.ContentTypeCollection

**Accessibility:** Read Only

Specifies the collection of content types for the list (1).

It MUST NOT be NULL.

#### 3.2.5.79.1.2.2 Fields

**Type:** Microsoft.SharePoint.Client.FieldCollection

**Accessibility:** Read Only

Specifies the collection of all fields (2) in the list (1).

It MUST NOT be NULL.

#### 3.2.5.79.1.2.3 Forms

**Type:** Microsoft.SharePoint.Client.FormCollection

**Accessibility:** Read Only

Specifies the collection of all list forms in the list (1).

It MUST NOT be NULL.

#### 3.2.5.79.1.2.4 ParentWeb

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read Only

Specifies the site (2) that contains the list (1).

### 3.2.5.79.1.2.5 RoleAssignments

**Type:** Microsoft.SharePoint.Client.RoleAssignmentCollection

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.SecurableObject.RoleAssignments**, as specified in section [3.2.5.118.1.2.1](#).

### 3.2.5.79.1.2.6 RootFolder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Specifies the **root folder** for the list (1).

It MUST NOT be NULL.

### 3.2.5.79.1.2.7 UserCustomActions

**Type:** Microsoft.SharePoint.Client.UserCustomActionCollection

**Accessibility:** Read Only

Specifies the collection of all **user custom actions** for the list (1).

It MUST NOT be NULL.

### 3.2.5.79.1.2.8 Views

**Type:** Microsoft.SharePoint.Client.ViewCollection

**Accessibility:** Read Only

Specifies the collection of all public views on the list (1) and personal views of the current user on the list (1).

It MUST NOT be NULL.

### 3.2.5.79.1.2.9 WorkflowAssociations

**Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCollection

**Accessibility:** Read Only

Specifies the collection of all workflow associations for the list (1).

It MUST NOT be NULL.

### 3.2.5.79.1.2.10 FirstUniqueAncestorSecurableObject

**Type:** Microsoft.SharePoint.Client.SecurableObject

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.SecurableObject.FirstUniqueAncestorSecurableObject**, as specified in section [3.2.5.118.1.2.2.<51>](#)

### 3.2.5.79.1.2.11 Items

**Type:** Microsoft.SharePoint.Client.ListItemEntityCollection

**Accessibility:** Read Only

Specifies the collection of list items for the list. [<52>](#)

### 3.2.5.79.1.2.12 InformationRightsManagementSettings

**Type:** Microsoft.SharePoint.Client.InformationRightsManagementSettings

**Accessibility:** Read Only

Specifies settings for document library Information Rights Management (IRM). [<53>](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-2146232832	System.NotSupportedException	<b>Picture library</b> does not support IRM settings.

### 3.2.5.79.1.2.13 EventReceivers

**Type:** Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**Accessibility:** Read Only

Gets the collection of **event receivers** that have been registered for the list (1). [<54>](#)

## 3.2.5.79.2 Methods

### 3.2.5.79.2.1 Scalar Methods

#### 3.2.5.79.2.1.1 BreakRoleInheritance

**Return Type:** None

Updates the list (1) to stop inheriting role assignments from the site (2) that contains the list (1).

**Parameters:**

*copyRoleAssignments*: Specifies whether to perform a one-time copy of the role assignments from the site (2) that contains the list (1) to the list (1). If FALSE the list (1) MUST be given one role assignment containing the current user.

Type: CSOM Boolean

*clearSubscopes*: If the **securable object** is a site (2), and the *clearSubScopes* parameter is **TRUE**, the role assignments for all child securable objects in the current site (2) and in the sites (2) which inherit role assignments from the current site (2) MUST be cleared and those securable objects will



inherit role assignments from the current site (2) after this call. If the securable object is a site (2), and the *clearSubScopes* parameter is **FALSE**, the role assignments for all child securable objects that do not inherit role assignments from their parent object (1) MUST remain unchanged. If the securable object is not a site (2), and the *clearSubScopes* parameter is **TRUE**, the role assignments for all child securable objects MUST be cleared and those securable objects will inherit role assignments from the current securable object after this call. If the securable object is not a site (2), and the *clearSubScopes* parameter is **FALSE**, the role assignments for all child securable objects that do not inherit role assignments from their parent object (1) MUST remain unchanged.

Type: CSOM Boolean

### 3.2.5.79.2.1.2 DeleteObject

**Return Type:** None

Deletes the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147016498	Microsoft.SharePoint.SPException	List (1) cannot be deleted.
- 2130575299	Microsoft.SharePoint.SPException	List (1) cannot be deleted.
- 2130575157	Microsoft.SharePoint.SPException	List (1) cannot be deleted because one or more related lists (1) have a <b>relationship behavior constraint</b> that prevents the operation.

### 3.2.5.79.2.1.3 Recycle

**Return Type:** CSOM GUID

Moves the list (1) to the Recycle Bin and returns the identifier of the new Recycle Bin item.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147016498	Microsoft.SharePoint.SPException	List (1) cannot be deleted.
- 2130575299	Microsoft.SharePoint.SPException	List (1) cannot be deleted.
- 2130575157	Microsoft.SharePoint.SPException	List (1) cannot be deleted because one or more related lists (1) have a relationship behavior constraint that prevents the operation.

### 3.2.5.79.2.1.4 ResetRoleInheritance

**Return Type:** None

Updates the list (1) to inherit role assignments from the site (2) that contains the list (1).

**Parameters:** None

### 3.2.5.79.2.1.5 Update

**Return Type:** None

Commits changed properties of the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130575342	Microsoft.SharePoint.SPException	Another list (1) with the title already exists in the site (2).
- 2130575305	Microsoft.SharePoint.SPException	List (1) was modified on the server (2) in a way that prevents changes from being committed, as determined by the protocol server.
- 2130575273	Microsoft.SharePoint.SPException	The data validation criteria refers to a column that does not exist.

### 3.2.5.79.2.1.6 RenderListData

**Return Type:** CSOM String

Returns the data for the specified query view. <55> The result is implementation specific, used for providing data to a user interface.

**Parameters:**

*viewXml*: Specifies the query as **XML** that conforms to the **ViewDefinition** type as specified in [\[MS-WSSCAML\]](#) section 2.3.2.17.

Type: CSOM String

It MUST NOT be NULL.

### 3.2.5.79.2.1.7 GetListItemChangesSinceToken

**Return Type:** CSOM Stream

Returns the changes made to the list (1) since the date and time specified in the change token defined by the *query* input parameter. <56>

**Parameters:**

*query*: Specifies the query values to get the changes made to the list. See section [3.2.5.185](#).

Type: Microsoft.SharePoint.Client.ChangeLogItemQuery

### 3.2.5.79.2.1.8 RenderListFormData

**Return Type:** CSOM String

Returns a string containing field (2) values and field (2) schema attributes for a list item. [<57>](#) The result is implementation specific, used for providing data to a user interface.

**Parameters:**

*itemId*: Specifies the list item identifier for a list item in the list (1).

Type: CSOM Int32

It MUST NOT be NULL.

*formId*: Specifies a unique identifier in the client.

Type: CSOM String

It MUST NOT be NULL.

*mode*: Specifies the page type of the list form.

Type: CSOM Int32

It MUST NOT be NULL.

### 3.2.5.79.2.1.9 SaveAsNewView

**Return Type:** CSOM String

Overwrites a view if it already exists, creates a new view if it does not and then extracts the implementation-specific filter and sort information from the URL and builds and updates the view's XML. [<58>](#) Returns the URL of the view.

**Parameters:**

*oldName*: The name of the view the user is currently on.

Type: CSOM String

*newName*: The new name given by the user.

Type: CSOM String

*privateView*: **true** to make the view private; otherwise, **false**.

Type: CSOM Boolean

*uri*: URL that contains all the implementation-specific filter and sort information for the view.

Type: CSOM String

## 3.2.5.79.2.2 ObjectPath Methods

### 3.2.5.79.2.2.1 AddItem

**Return Type:** Microsoft.SharePoint.Client.ListItem

Creates a new list item in the list (1) and return a reference (3) to the added SP.ListItem.

**Parameters:**

*parameters:* Specifies the properties of the new list item.

Type: Microsoft.SharePoint.Client.ListItemCreationInformation

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575312	Microsoft.SharePoint.SPException	
-2130575245	Microsoft.SharePoint.SPException	

**3.2.5.79.2.2.2 GetChanges**

**Return Type:** Microsoft.SharePoint.Client.ChangeCollection

Specifies the collection of changes from the change log that have occurred within the list (1), based on the specified query.

**Parameters:**

*query:* Specifies the query.

Type: Microsoft.SharePoint.Client.ChangeQuery

It MUST NOT be NULL.

**3.2.5.79.2.2.3 GetItemById**

**Return Type:** Microsoft.SharePoint.Client.ListItem

Specifies the list item with the specified list item identifier.

**Parameters:**

*id:* Specifies the list item identifier.

Type: CSOM Int32

**3.2.5.79.2.2.4 GetItemByStringId**

**Return Type:** Microsoft.SharePoint.Client.ListItem

Returns the list item with either the specified list item identifier or the specified identifier for an instance of an **external content type**.

**Parameters:**

*sId:* Specifies the list item identifier, or if the list (1) is an external list, specifies the identifier for an instance of an external content type as specified in [\[MS-ECTPWPS\]](#) section 3.1.4.1.2.1.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

## Exceptions:

Error Code	Error Type Name	Condition
-2130575338	Microsoft.SharePoint.SPException	List item does not exist, and the list (1) is an external list.
-1	System.FormatException	<b>sId</b> is a list item identifier with invalid format, and the list (1) is not an external list.

### 3.2.5.79.2.2.5 GetItems

**Return Type:** Microsoft.SharePoint.Client.ListItemCollection

Returns a collection of list items from the list (1) based on the specified query.

**Parameters:**

*query*: Specifies a query.

Type: Microsoft.SharePoint.Client.CamlQuery

It MUST NOT be NULL.

### 3.2.5.79.2.2.6 GetRelatedFields

**Return Type:** Microsoft.SharePoint.Client.RelatedFieldCollection

Returns a collection of lookup fields that use this list (1) as a data source (1) and that have **FieldLookup.IsRelationship** set to **TRUE**.

**Parameters:** None

### 3.2.5.79.2.2.7 GetView

**Return Type:** Microsoft.SharePoint.Client.View

Returns the list view with the specified **view identifier**. If an empty GUID is specified it MUST return the default view of the list (1).

**Parameters:**

*viewGuid*: Specifies the view identifier.

Type: CSOM GUID

### 3.2.5.79.2.2.8 GetRelatedFieldsExtendedData

**Return Type:** Microsoft.SharePoint.Client.RelatedFieldExtendedDataCollection

Returns a collection of objects (1) that store properties of relationship lookup fields of this list (1). [<59>](#)

**Parameters:** None

### 3.2.5.80 Microsoft.SharePoint.Client.ListCollection

**TypeId:** {1E78B736-61F0-441C-A785-10FC25387C8D}

**ShortName:** SP.ListCollection

Specifies a collection of lists (1).

#### 3.2.5.80.1 Properties

##### 3.2.5.80.1.1 Scalar Properties

None.

##### 3.2.5.80.1.2 ObjectPath Properties

None.

#### 3.2.5.80.2 Methods

##### 3.2.5.80.2.1 Scalar Methods

None.

##### 3.2.5.80.2.2 ObjectPath Methods

###### 3.2.5.80.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.List

Creates a new list (1) and adds it to the collection.

**Parameters:**

*parameters:* Specifies the properties of the new list (1).

Type: Microsoft.SharePoint.Client.ListCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObject NotFoundException	<b>Entity</b> specified in <b>ListCreationInformation.DataSourceProperties</b> or the specified <b>SpecificFinder</b> does not exist on the server (2).
- 2130575 342	Microsoft.SharePoint.SPException	Another list (1) with the title already exists in the site (2).
- 2130575	Microsoft.SharePoint.SPException	List server template is not valid.

Error Code	Error Type Name	Condition
237		

### 3.2.5.80.2.2.2 EnsureSiteAssetsLibrary

**Return Type:** Microsoft.SharePoint.Client.List

Returns a list (1) that is designated as a default asset location for images or other files that the users upload to their wiki pages.

**Parameters:** None

### 3.2.5.80.2.2.3 EnsureSitePagesLibrary

**Return Type:** Microsoft.SharePoint.Client.List

Returns a list (1) that is designated as a default location for wiki pages.

**Parameters:** None

### 3.2.5.80.2.2.4 GetById

**Return Type:** Microsoft.SharePoint.Client.List

Returns the list (1) with the specified list identifier.

**Parameters:**

*uniqueId*: Specifies the list identifier.

Type: CSOM GUID

### 3.2.5.80.2.2.5 GetByTitle

**Return Type:** Microsoft.SharePoint.Client.List

Returns the list (1) with the specified display name.

**Parameters:**

*strListName*: Specifies the display name.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

### 3.2.5.81 Microsoft.SharePoint.Client.ListCreationInformation

**TypeId:** {E247B7FC-095E-4EA4-A4C9-C5D373723D8C}

**ShortName:** SP.ListCreationInformation

Specifies the properties of the new list (1).

### 3.2.5.81.1 Properties

#### 3.2.5.81.1.1 Scalar Properties

##### 3.2.5.81.1.1.1 CustomSchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the list schema of the new list (1).

It MUST be an XML fragment that conforms to List Schema as specified in [\[MS-WSSCAML\]](#) section 2.3.

##### 3.2.5.81.1.1.2 DataSourceProperties

**Type:** CSOM dictionary

**Accessibility:** Read/Write

Specifies the properties of the data source (1) of the new list (1). If the value is not NULL, **QuickLaunchOption** MUST be set to Off.

If it is not NULL, it MUST contain the following keys: "LobSystemInstance", "EntityNamespace", "Entity", and "SpecificFinder". The value of the "Entity" and "SpecificFinder" keys MUST be non-NULL and correct as determined by the protocol server.

##### 3.2.5.81.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description of the new list (1).

##### 3.2.5.81.1.1.4 DocumentTemplateType

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the identifier of the document template (1) for the new list (1).

##### 3.2.5.81.1.1.5 QuickLaunchOption

**Type:** Microsoft.SharePoint.Client.QuickLaunchOptions

**Accessibility:** Read/Write

Specifies whether the new list (1) is displayed on the Quick Launch of the site (2).

##### 3.2.5.81.1.1.6 TemplateFeatureId

**Type:** CSOM GUID



**Accessibility:** Read/Write

Specifies the feature identifier of the feature that contains the list schema for the new list (1). It MUST be empty GUID if the list schema for the new list (1) is not contained within a feature.

### 3.2.5.81.1.1.7 **TemplateType**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the list server template of the new list (1).

### 3.2.5.81.1.1.8 **Title**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name of the new list (1).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

### 3.2.5.81.1.1.9 **Url**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the site-relative URL of the location for the new list (1).

It MUST be a site-relative URL.

### 3.2.5.81.1.2 **ObjectPath Properties**

None.

## 3.2.5.82 **Microsoft.SharePoint.Client.ListDataSource**

**TypeId:** {06BFE4A5-1516-4B55-A6D7-ECBE3FF7A3C8}

**ShortName:** SP.ListDataSource

Specifies the data source (1) of an external list.

### 3.2.5.82.1 **Properties**

#### 3.2.5.82.1.1 **Scalar Properties**

##### 3.2.5.82.1.1.1 **Properties**

**Type:** CSOM dictionary

**Accessibility:** Read Only

Specifies the properties of the data source (1) of an external list.

It MUST NOT be NULL. It MUST contain the following keys: "LobSystemInstance", "EntityNamespace", "Entity", and "SpecificFinder".

### 3.2.5.82.1.2 ObjectPath Properties

None.

### 3.2.5.83 Microsoft.SharePoint.Client.ListDataValidationExceptionValue

**TypeId:** {356FE248-721A-4ADF-AF96-20822BC5476E}

**ShortName:** SP.ListDataValidationExceptionValue

Specifies failure information for a failed field (2) or list item data validation.

#### 3.2.5.83.1 Properties

##### 3.2.5.83.1.1 Scalar Properties

###### 3.2.5.83.1.1.1 FieldFailures

**Type:** CSOM Array

**Accessibility:** Read Only

Specifies the collection of all failures that occurred during field (2) data validation.

It MUST be an array of ListDataValidationFailure.

###### 3.2.5.83.1.1.2 ItemFailure

**Type:** Microsoft.SharePoint.Client.ListDataValidationFailure

**Accessibility:** Read Only

Specifies a failure that occurred during list item data validation.

##### 3.2.5.83.1.2 ObjectPath Properties

None.

### 3.2.5.84 Microsoft.SharePoint.Client.ListDataValidationFailure

**TypeId:** {6E0BC783-53A2-4506-827F-135040524794}

**ShortName:** SP.ListDataValidationFailure

Specifies details for a single field (2) or list item data validation failure.

### 3.2.5.84.1 Properties

#### 3.2.5.84.1.1 Scalar Properties

##### 3.2.5.84.1.1.1 DisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name of the **parent list** for a list item data validation failure, or the display name of the field (2) for a field (2) data validation failure.

##### 3.2.5.84.1.1.2 Message

**Type:** CSOM String

**Accessibility:** Read Only

Specifies a description of the data validation failure.

##### 3.2.5.84.1.1.3 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the list identifier of the parent list for a list item data validation failure, or the field internal name for a field (2) data validation failure.

##### 3.2.5.84.1.1.4 Reason

**Type:** Microsoft.SharePoint.Client.ListDataValidationFailureReason

**Accessibility:** Read Only

Specifies the reason for the data validation failure.

##### 3.2.5.84.1.1.5 ValidationType

**Type:** Microsoft.SharePoint.Client.ListDataValidationType

**Accessibility:** Read Only

Specifies the type of unmet data validation criteria for the data validation failure.

#### 3.2.5.84.1.2 ObjectPath Properties

None.

### 3.2.5.85 Microsoft.SharePoint.Client.ListDataValidationFailureReason

**ShortName:** SP.ListDataValidationFailureReason

**Flag:** false

Specifies the reason for a data validation failure.

### **3.2.5.85.1 Field Values**

#### **3.2.5.85.1.1 DataFailure**

**Value:** 0

Specifies that the value failed to meet the data validation criteria.

#### **3.2.5.85.1.2 FormulaError**

**Value:** 1

Specifies that an error occurred while evaluating a formula.

### **3.2.5.86 Microsoft.SharePoint.Client.ListDataValidationType**

**ShortName:** SP.ListDataValidationType

**Flag:** false

Specifies the type of unmet data validation criteria in a data validation failure.

### **3.2.5.86.1 Field Values**

#### **3.2.5.86.1.1 UserFormulaField**

**Value:** 0

Specifies that the value failed to meet a user-defined data validation criteria for the field (2).

#### **3.2.5.86.1.2 UserFormulaItem**

**Value:** 1

Specifies that the value failed to meet a user-defined data validation criteria for the list item.

#### **3.2.5.86.1.3 RequiredField**

**Value:** 2

Specifies that no value was provided for a required field (2).

#### **3.2.5.86.1.4 ChoiceField**

**Value:** 3

Specifies that the value was not found in the set of allowed values for the field (2).

#### **3.2.5.86.1.5 MinMaxField**

**Value:** 4

Specifies that the value is less than the MinimumValue or greater than the MaximumValue allowed for the field (2).

### 3.2.5.86.1.6 TextField

**Value:** 5

Specifies that the value exceeded the MaxLength allowed for the field (2).

### 3.2.5.87 Microsoft.SharePoint.Client.ListItem

**TypeId:** {53CC48C0-1777-47B7-99CA-729390F06602}

**ShortName:** SP.ListItem

Specifies a list item.

Contains CSOM expando fields, which correspond to the fields (2) defined in the parent list. The CSOM expando field name is the name of the field (2) defined in the list (1) and the CSOM expando field value is the field (2) value in the list item. The following table specifies the mapping between **field types** and values.

Field type	Mapping to a value
<b>Integer</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM Int32.
<b>Text</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM String.
<b>Note</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
<b>DateTime</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM DateTime.
<b>Counter</b>	It MUST be a <b>CSOM Int32</b> .
<b>Choice</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
<b>Lookup</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Object</b> of type <b>FieldLookupValue</b> , as specified in section <a href="#">3.2.5.50</a> .
<b>Boolean</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM Boolean.
<b>Number</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM Double.
<b>Currency</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Double</b> .
<b>URL</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM Object of type <b>FieldUrlValue</b> , as specified in section <a href="#">3.2.5.60</a> .
<b>Computed</b>	N/A
<b>Threading</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
<b>Guid</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM GUID</b> .

Field type	Mapping to a value
<b>MultiChoice</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Array</b> .
<b>GridChoice</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Array</b> .
<b>Calculated</b>	N/A
<b>File</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
<b>Attachments</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Boolean</b> .
<b>User</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM Object of type <b>FieldUserValue</b> , as specified in section <a href="#">3.2.5.63</a> .
<b>Recurrence</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Boolean</b> .
<b>CrossProjectLink</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Boolean</b> .
<b>ModStat</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Int32</b> .
<b>Error</b>	N/A
<b>ContentTypeId</b>	When its value is undefined it MUST be NULL, otherwise it MUST be CSOM Object of type <b>ContentTypeId</b> , as specified in section <a href="#">3.2.5.30</a> .
<b>PageSeparator</b>	N/A
<b>ThreadIndex</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
<b>WorkflowStatus</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Int32</b> .
<b>AllDayEvent</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Boolean</b> .
<b>WorkflowEventType</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Int32</b> .
<b>Facilities</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Array</b> .
<b>FreeBusy</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
<b>Overbook</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
<b>Confidential</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Boolean</b> .
<b>WhatsNew</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Boolean</b> .

Field type	Mapping to a value
<b>DueDate</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM DateTime</b> .
<b>AllowEditing</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Boolean</b> .
<b>SendTo</b>	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Array</b> .
Confirmations	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
CallTo	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM Array</b> .
CallTime	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM DateTime</b> .
Whereabout	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .
From	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM DateTime</b> .
Until	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM DateTime</b> .
ContactInfo	When its value is undefined it MUST be NULL, otherwise it MUST be a <b>CSOM String</b> .

The DisplayName, EffectiveBasePermissions, EffectiveBasePermissionsForUI and HasUniqueRoleAssignments properties are not included in the default scalar property set for this type.

### 3.2.5.87.1 Properties

#### 3.2.5.87.1.1 Scalar Properties

##### 3.2.5.87.1.1.1 DisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name of the list item.

It MUST NOT be NULL. It MUST NOT be empty.

##### 3.2.5.87.1.1.2 EffectiveBasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the permissions on the list item that are assigned to the current user.

It MUST NOT be NULL.

### 3.2.5.87.1.1.3 FileSystemObjectType

**Type:** Microsoft.SharePoint.Client.FileSystemObjectType

**Accessibility:** Read Only

Specifies whether the list item is a file or a list folder.

It MUST be one of the following values: File or Folder.

### 3.2.5.87.1.1.4 HasUniqueRoleAssignments

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the role assignments are uniquely defined for the list item. If the value is "false", role assignments are inherited from the parent list.

### 3.2.5.87.1.1.5 Id

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the list item identifier. It MUST be 0 for a list item in an external list. It MUST be -1 for list items that have not yet been added to a list (1).

### 3.2.5.87.1.1.6 EffectiveBasePermissionsForUI

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the effective base permissions for the current user, as they should be displayed in the user interface (UI). [<60>](#) If the list is not in read-only UI mode, the value of

**EffectiveBasePermissionsForUI** MUST be the same as the value of **EffectiveBasePermissions** (section [3.2.5.87.1.1.2](#)). If the list is in read-only UI mode, the value of **EffectiveBasePermissionsForUI** MUST be a subset of the value of **EffectiveBasePermissions**.

It MUST NOT be NULL.

## 3.2.5.87.1.2 ObjectPath Properties

### 3.2.5.87.1.2.1 ContentType

**Type:** Microsoft.SharePoint.Client.ContentType

**Accessibility:** Read Only

Specifies the content type of the list item. It MUST be NULL if the list item has no content type.



### 3.2.5.87.1.2.2 FieldValuesAsHtml

**Type:** Microsoft.SharePoint.Client.FieldStringValue

**Accessibility:** Read Only

Specifies the values for the list item as Hypertext Markup Language (HTML).

It MUST NOT be NULL.

### 3.2.5.87.1.2.3 FieldValuesAsText

**Type:** Microsoft.SharePoint.Client.FieldStringValue

**Accessibility:** Read Only

Specifies the values for the list item as text.

It MUST NOT be NULL.

### 3.2.5.87.1.2.4 FieldValuesForEdit

**Type:** Microsoft.SharePoint.Client.FieldStringValue

**Accessibility:** Read Only

Specifies the formatted values to be displayed in an edit form.

It MUST NOT be NULL.

### 3.2.5.87.1.2.5 File

**Type:** Microsoft.SharePoint.Client.File

**Accessibility:** Read Only

Specifies the file associated with the list item. It MUST be NULL if the parent list is not a document library or **FileSystemObjectType** is **Folder**.

### 3.2.5.87.1.2.6 ParentList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read Only

Specifies the parent list that contains the list item.

It MUST NOT be NULL.

### 3.2.5.87.1.2.7 RoleAssignments

**Type:** Microsoft.SharePoint.Client.RoleAssignmentCollection

**Accessibility:** Read Only

Specifies the role assignments for the list item.

### 3.2.5.87.1.2.8 AttachmentFiles

**Type:** Microsoft.SharePoint.Client.AttachmentCollection

**Accessibility:** Read Only

Specifies the collection of attachments that are associated with the list item. <61>

### 3.2.5.87.1.2.9 FirstUniqueAncestorSecurableObject

**Type:** Microsoft.SharePoint.Client.SecurableObject

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.SecurableObject.FirstUniqueAncestorSecurableObject**, as specified in section [3.2.5.118.1.2.2.<62>](#)

### 3.2.5.87.1.2.10 Folder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Gets a **Microsoft.SharePoint.Client.Folder** (section [3.2.5.72](#)) object that is associated with the list item. <63>

Returns **null** if the list item is not a folder.

## 3.2.5.87.2 Methods

### 3.2.5.87.2.1 Scalar Methods

#### 3.2.5.87.2.1.1 BreakRoleInheritance

**Return Type:** None

Updates the list item to stop inheriting role assignments from the parent list or the parent folder.

**Parameters:**

*copyRoleAssignments:* Specifies whether to perform a one-time copy of the role assignments from the parent list or the parent folder to the list item. If "false", the list item MUST be given one role assignment containing the current user.

Type: CSOM Boolean

*clearSubscopes:* Specifies whether the role assignments for all child list items MUST be cleared.

Type: CSOM Boolean

#### 3.2.5.87.2.1.2 DeleteObject

**Return Type:** None

Deletes the list item.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	List (1) does not support this operation or the list item does not exist in the external list.

**3.2.5.87.2.1.3 ParseAndSetFieldValue****Return Type:** None

Sets the value of the field (2) for the list item based on an implementation specific transformation of the value.

**Parameters:**

*fieldName*: Specifies the field internal name.

Type: CSOM String

*value*: Specifies the new value for the field (2).

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575155	Microsoft.SharePoint.SPFieldValueException	Field (2) is required and <b>value</b> is NULL or empty, the field (2) does not support setting values, or the value cannot be converted to the type of the field (2).

**3.2.5.87.2.1.4 Recycle****Return Type:** CSOM GUID

Moves the list item to the Recycle Bin and returns the identifier of the new Recycle Bin item.

**Parameters:** None**Exceptions:**

Error Code	Error Type Name	Condition
-2130575338	Microsoft.SharePoint.SPException	List item does not exist.
-1	System.NotSupportedException	Method called on an external list.

**3.2.5.87.2.1.5 ResetRoleInheritance****Return Type:** None

Updates the list item to inherit role assignments from the parent list or the parent folder.

**Parameters:** None

### 3.2.5.87.2.1.6 SetFieldValue

**Return Type:** None

Sets the value of the field (2) for the list item.

**Parameters:**

*fieldName*: Specifies the field internal name.

Type: CSOM String

*value*: Specifies the new value for the field (2).

Type: System.Object

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575155	Microsoft.SharePoint.SPFieldValueException	Field (2) is required and <b>value</b> is NULL or empty, the field (2) does not support setting values, or the value cannot be converted to the type of the field (2).

### 3.2.5.87.2.1.7 Update

**Return Type:** None

Commits changed properties of the list item.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575305	Microsoft.SharePoint.SPException	List item was modified on the server (2) in a way that prevents changes from being committed, as determined by the protocol server.
-1	System.InvalidOperationException	List (1) does not support this operation.

### 3.2.5.87.2.1.8 ValidateParseAndSetFieldValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value. [<64>](#)

**Parameters:**

*fieldName*: Specifies the field internal name.

Type: CSOM String

*value*: Specifies the new value for the field (2).

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024809	System.ArgumentException	A column with the specified internal name does not exist.

### 3.2.5.87.2.2 ObjectPath Methods

None.

### 3.2.5.88 Microsoft.SharePoint.Client.ListItemCollection

**TypeId:** {1722DF25-A4D3-44BB-A1C6-04DBB90E9D91}

**ShortName:** SP.ListItemCollection

Specifies a collection of list items.

#### 3.2.5.88.1 Properties

##### 3.2.5.88.1.1 Scalar Properties

###### 3.2.5.88.1.1.1 ListItemCollectionPosition

**Type:** Microsoft.SharePoint.Client.ListItemCollectionPosition

**Accessibility:** Read Only

Specifies the information required to get the next page of data for a list view.

##### 3.2.5.88.1.2 ObjectPath Properties

None.

#### 3.2.5.88.2 Methods

##### 3.2.5.88.2.1 Scalar Methods

None.

##### 3.2.5.88.2.2 ObjectPath Methods

###### 3.2.5.88.2.2.1 GetById

**Return Type:** Microsoft.SharePoint.Client.ListItem

Returns the list item with the specified list item identifier.

**Parameters:**

*id*: The list item identifier.

Type: CSOM Int32

### 3.2.5.88.2.2.2 GetByStringId

**Return Type:** Microsoft.SharePoint.Client.ListItem

Returns the list item with either the specified list item identifier or the specified identifier for an instance of an external content type.

**Parameters:**

*sId*: Specifies the list item identifier, or if the list (1) is an external list, specifies the identifier for an instance of an external content type as specified in [\[MS-ECTPWPS\]](#) section 3.1.4.1.2.1.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575338	Microsoft.SharePoint.SPException	List item does not exist, and the list (1) is an external list.
-1	System.FormatException	<b>sId</b> is a list item identifier with invalid format, and the list (1) is NOT an external list.
-1	System.OverflowException	The list does NOT have an external data source and the specified ID is an integer requiring more than 32 bits to represent.

### 3.2.5.89 Microsoft.SharePoint.Client.ListItemCollectionPosition

**TypeId:** {922354EB-C56A-4D88-AD59-67496854EFE1}

**ShortName:** SP.ListItemCollectionPosition

Specifies the information required to get the next page of data for a list view.

#### 3.2.5.89.1 Properties

##### 3.2.5.89.1.1 Scalar Properties

###### 3.2.5.89.1.1.1 PagingInfo

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies information, as name-value pairs, required to get the next page of data for a list view. If a name appears more than once, one value **MUST** be used.

It **MUST** conform to the following ABNF as defined in [\[RFC5234\]](#):

PagingInfo = 0\*1(NameValuePair 0\*601("&" NameValuePair))

NameValuePair = Name "=" Value

Value = 1\*(Alphanum | Mark | Escaped)

Name = 1\*(Alphanum | Mark)

Escaped = "%" HEXDIG HEXDIG

Mark = "-" | "\_" | "." | "!" | "~" | "\*" | "'" | "(" | ")"

Alphanum = DIGIT | ALPHA

### 3.2.5.89.1.2 ObjectPath Properties

None.

### 3.2.5.90 Microsoft.SharePoint.Client.ListItemCreationInformation

**TypeId:** {54CDBEE5-0897-44AC-829F-411557FA11BE}

**ShortName:** SP.ListItemCreationInformation

Specifies the properties of the new list item.

#### 3.2.5.90.1 Properties

##### 3.2.5.90.1.1 Scalar Properties

###### 3.2.5.90.1.1.1 FolderUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the folder for the new list item.

If the value is a server-relative URL or an absolute URL, it MUST be under the root folder of the list (1). It MUST be NULL, empty, a server-relative URL, or an absolute URL.

###### 3.2.5.90.1.1.2 LeafName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the new list item. It MUST be the name of the file if the parent list of the list item is a document library.

Its length MUST be equal to or less than 128. It MUST NOT contain the following characters: \x00-\x1F, \x22, \x23, \x25, \x26, \x2A, \x3A, \x3C, \x3E, \x3F, \x5C and \x7B-\x9F.

###### 3.2.5.90.1.1.3 UnderlyingObjectType

**Type:** Microsoft.SharePoint.Client.FileSystemObjectType

**Accessibility:** Read/Write

Specifies whether the new list item is a file or a folder.

It MUST be one of the following values: **File** or **Folder**.

### 3.2.5.90.1.2 ObjectPath Properties

None.

### 3.2.5.91 Microsoft.SharePoint.Client.ListTemplate

**TypeId:** {D772ECD1-DAA3-4CB1-9EA1-FEEA1E383FB2}

**ShortName:** SP.ListTemplate

Specifies a list template.

#### 3.2.5.91.1 Properties

##### 3.2.5.91.1.1 Scalar Properties

###### 3.2.5.91.1.1.1 AllowsFolderCreation

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether new list folders can be added to a list (1) created from the list template.

###### 3.2.5.91.1.1.2 BaseType

**Type:** Microsoft.SharePoint.Client.BaseType

**Accessibility:** Read Only

Specifies the base type of the list template.

###### 3.2.5.91.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the description of the list template.

###### 3.2.5.91.1.1.4 FeatureId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the feature identifier of the feature that contains the list schema for the list template. It MUST be an empty GUID if the list schema for the list template is not contained within a feature.

###### 3.2.5.91.1.1.5 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read Only



Specifies whether the list template is hidden from the user interface for creating new lists (1).

#### **3.2.5.91.1.1.6 ImageUrl**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL for the icon of the list template.

It MUST NOT be NULL. Its length MUST be equal to or less than 255. It MUST be a server-relative URL or an absolute URL.

#### **3.2.5.91.1.1.7 InternalName**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the identifier for the list template.

It MUST NOT be NULL.

#### **3.2.5.91.1.1.8 IsCustomTemplate**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list template is user-created. If "false", the list template is a system component.

#### **3.2.5.91.1.1.9 ListTemplateTypeKind**

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the list server template.

#### **3.2.5.91.1.1.10 Name**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name of the list template.

It MUST NOT be NULL.

#### **3.2.5.91.1.1.11 OnQuickLaunch**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether a list (1) created from the list template appears on the Quick Launch of the site (2).

#### **3.2.5.91.1.1.12 Unique**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list template can be used to create only one list (1) in a site collection, and that the list template is hidden from the user interface for creating new lists (1).

#### **3.2.5.91.1.2 ObjectPath Properties**

None.

#### **3.2.5.91.2 Methods**

##### **3.2.5.91.2.1 Scalar Methods**

None.

##### **3.2.5.91.2.2 ObjectPath Methods**

None.

#### **3.2.5.92 Microsoft.SharePoint.Client.ListTemplateCollection**

**TypeId:** {23748D10-16A1-4946-A38B-98FDEC0E0EC8}

**ShortName:** SP.ListTemplateCollection

Specifies a collection of list templates (section [3.2.5.91](#)).

#### **3.2.5.92.1 Properties**

##### **3.2.5.92.1.1 Scalar Properties**

None.

##### **3.2.5.92.1.2 ObjectPath Properties**

None.

#### **3.2.5.92.2 Methods**

##### **3.2.5.92.2.1 Scalar Methods**

None.

### 3.2.5.92.2.2 ObjectPath Methods

#### 3.2.5.92.2.2.1 GetByName

**Return Type:** Microsoft.SharePoint.Client.ListTemplate

Returns the list template with the specified name. [<65>](#)

**Parameters:**

*strName:* The specified name.

Type: CSOM String

### 3.2.5.93 Microsoft.SharePoint.Client.ListTemplateType

**ShortName:** SP.ListTemplateType

**Flag:** false

Specifies the type of a list template. A set of predefined values are specified in [\[MS-WSSTS\]](#) section 2.7.

#### 3.2.5.93.1 Field Values

##### 3.2.5.93.1.1 NoListTemplate

**Value:** 0

Specifies no template applies.

##### 3.2.5.93.1.2 GenericList

**Value:** 100

Specifies a basic list (1).

##### 3.2.5.93.1.3 DocumentLibrary

**Value:** 101

Specifies a Document library.

##### 3.2.5.93.1.4 Survey

**Value:** 102

Specifies a survey list (1).

##### 3.2.5.93.1.5 Links

**Value:** 103

Specifies a **links** list (1).

### **3.2.5.93.1.6 Announcements**

**Value:** 104

Specifies an announcements list (1).

### **3.2.5.93.1.7 Contacts**

**Value:** 105

Specifies a contacts list (1).

### **3.2.5.93.1.8 Events**

**Value:** 106

Specifies a calendar list (1).

### **3.2.5.93.1.9 Tasks**

**Value:** 107

Specifies a task (2) list (1).

### **3.2.5.93.1.10 DiscussionBoard**

**Value:** 108

Specifies a discussion board.

### **3.2.5.93.1.11 PictureLibrary**

**Value:** 109

Specifies a picture library.

### **3.2.5.93.1.12 DataSources**

**Value:** 110

Specifies a list (1) of data sources (1) for a site (2).

### **3.2.5.93.1.13 WebTemplateCatalog**

**Value:** 111

Specifies a **site template** gallery (1).

### **3.2.5.93.1.14 UserInformation**

**Value:** 112

Specifies a **user information list**.

### **3.2.5.93.1.15 WebPartCatalog**

**Value:** 113

Specifies a Web Part gallery (1).

### **3.2.5.93.1.16 ListTemplateCatalog**

**Value:** 114

Specifies a list template gallery (1).

### **3.2.5.93.1.17 XMLForm**

**Value:** 115

Specifies an XML **form library**.

### **3.2.5.93.1.18 MasterPageCatalog**

**Value:** 116

Specifies a **master page** gallery (1).

### **3.2.5.93.1.19 NoCodeWorkflows**

**Value:** 117

Specifies a **declarative workflow** library.

### **3.2.5.93.1.20 WorkflowProcess**

**Value:** 118

Specifies a form (1) **custom action** workflow (2) library.

### **3.2.5.93.1.21 WebPageLibrary**

**Value:** 119

Specifies a Wiki Page library.

### **3.2.5.93.1.22 CustomGrid**

**Value:** 120

Specifies a **custom list** in **datasheet** view.

### **3.2.5.93.1.23 SolutionCatalog**

**Value:** 121

Specifies a **site solution** gallery (1).

### **3.2.5.93.1.24 NoCodePublic**

**Value:** 122

Specifies a site collection scoped declarative workflow library.

### **3.2.5.93.1.25 ThemeCatalog**

**Value:** 123

Specifies a theme gallery (1).

### **3.2.5.93.1.26 DataConnectionLibrary**

**Value:** 130

Specifies a **data connection library**.

### **3.2.5.93.1.27 WorkflowHistory**

**Value:** 140

Specifies a **workflow history list**.

### **3.2.5.93.1.28 GanttTasks**

**Value:** 150

Specifies a project tasks (2) list (1).

### **3.2.5.93.1.29 Meetings**

**Value:** 200

Specifies a meeting series list (1) in a Meeting Workspace site.

### **3.2.5.93.1.30 Agenda**

**Value:** 201

Specifies an agenda list (1) in a Meeting Workspace site.

### **3.2.5.93.1.31 MeetingUser**

**Value:** 202

Specifies an attendees list (1) in a Meeting Workspace site.

### **3.2.5.93.1.32 Decision**

**Value:** 204

Specifies a decisions list (1) in a Meeting Workspace site.

### **3.2.5.93.1.33 MeetingObjective**

**Value:** 207

Specifies an objectives list (1) in a Meeting Workspace site.

### **3.2.5.93.1.34 TextBox**

**Value:** 210

Specifies a text box list (1) in a Meeting Workspace site.

### **3.2.5.93.1.35 ThingsToBring**

**Value:** 211

Specifies a "things to bring" list (1) in a Meeting Workspace site.

### **3.2.5.93.1.36 HomePageLibrary**

**Value:** 212

Specifies a pages library in a Meeting Workspace site.

### **3.2.5.93.1.37 Posts**

**Value:** 301

Specifies a posts list (1) in a **blog (1)**.

### **3.2.5.93.1.38 Comments**

**Value:** 302

Specifies a comments list (1) in a **blog (1)**.

### **3.2.5.93.1.39 Categories**

**Value:** 303

Specifies a categories list (1) in a **blog (1)**.

### **3.2.5.93.1.40 Facility**

**Value:** 402

Specifies a list (1) to document shared assets in a group worksite.

### **3.2.5.93.1.41 Whereabouts**

**Value:** 403

Specifies a list (1) to track employee locations in a group worksite.

### **3.2.5.93.1.42 CallTrack**

**Value:** 404

Specifies a list (1) to track incoming phone call information in a group worksite.

### **3.2.5.93.1.43 Circulation**

**Value:** 405

Specifies a list (1) to track the circulation of documents in a group worksite.

### **3.2.5.93.1.44 Timecard**

**Value:** 420

Specifies a list (1) to manage work hours in a group worksite.

### **3.2.5.93.1.45 Holidays**

**Value:** 421

Specifies a list (1) that can be used to add holidays to a calendar.

### **3.2.5.93.1.46 IMEDic**

**Value:** 499

Specifies an **IME** dictionary list.

### **3.2.5.93.1.47 ExternalList**

**Value:** 600

Specifies an external list.

### **3.2.5.93.1.48 IssueTracking**

**Value:** 1100

Specifies an issue tracking list (1).

### **3.2.5.93.1.49 AdminTasks**

**Value:** 1200

Specifies an Administrator tasks (2) list (1).

### **3.2.5.93.1.50 HealthRules**

**Value:** 1220

Specifies a Health Rules list (1).



### **3.2.5.93.1.51 HealthReports**

**Value:** 1221

Specifies a Health Reports library.

### **3.2.5.93.1.52 InvalidType**

**Value:** -1

Not used.

### **3.2.5.93.1.53 HierarchyTasks**

**Value:** 151

Specifies a parent-based hierarchy tasks (2) list (1). [<66>](#)

### **3.2.5.93.1.54 AccessRequest**

**Value:** 160

Specifies an access request list (1). [<67>](#)

### **3.2.5.93.1.55 DesignCatalog**

**Value:** 124

Specifies a type of list that contains designs. [<68>](#) Each design item defines a customized look for the site and contains references to the master page, theme, background image and font for the look.

### **3.2.5.93.1.56 MaintenanceLogs**

**Value:** 175

Specifies a maintenance log. [<69>](#)

## **3.2.5.94 Microsoft.SharePoint.Client.MoveOperations**

**ShortName:** SP.MoveOperations

**Flag:** true

Specifies criteria for how to move files.

### **3.2.5.94.1 Field Values**

#### **3.2.5.94.1.1 None**

**Value:** 0

Specifies no move operation is specified.

### 3.2.5.94.1.2 Overwrite

**Value:** 1

Specifies a file with the same name is to be overwritten if it exists.

### 3.2.5.94.1.3 AllowBrokenThickets

**Value:** 8

Specifies the move operation is to be finished even if **thicket supporting files** are separated from the file.

### 3.2.5.94.1.4 BypassApprovePermission

**Value:** 64

Specifies approval permissions are not required if there are no **published** versions of the file.

## 3.2.5.95 Microsoft.SharePoint.Client.Navigation

**TypeId:** {D6AA87A7-71B3-4BBE-BCA7-00AB1BD7D37F}

**ShortName:** SP.Navigation

Represents navigation operations at the site collection level.

### 3.2.5.95.1 Properties

#### 3.2.5.95.1.1 Scalar Properties

##### 3.2.5.95.1.1.1 UseShared

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the site (2) inherits navigation. When this value is set, the change with the new value MUST be sent by the protocol client in the next request to the protocol server.

#### 3.2.5.95.1.2 ObjectPath Properties

##### 3.2.5.95.1.2.1 QuickLaunch

**Type:** Microsoft.SharePoint.Client.NavigationNodeCollection

**Accessibility:** Read Only

The collection of **navigation nodes** that correspond to links in the Quick Launch area of the site (2). MUST be NULL if the Quick Launch is unavailable.

##### 3.2.5.95.1.2.2 TopNavigationBar

**Type:** Microsoft.SharePoint.Client.NavigationNodeCollection

**Accessibility:** Read Only

The collection of navigation nodes that correspond to links in the **link bar** of the site (2). MUST be NULL if the top navigation bar is defined in a different site (2) or if the top navigation bar node collection has been deleted.

### 3.2.5.95.2 Methods

#### 3.2.5.95.2.1 Scalar Methods

None.

#### 3.2.5.95.2.2 ObjectPath Methods

##### 3.2.5.95.2.2.1 GetNodeById

**Return Type:** Microsoft.SharePoint.Client.NavigationNode

Gets the navigation node (**SP.NavigationNode**, section [3.2.5.96](#)) by using an integer identifier. <70>

**Parameters:**

*id*: Specifies the identifier of the navigation node.

Type: CSOM Int32

### 3.2.5.96 Microsoft.SharePoint.Client.NavigationNode

**TypeId:** {CD5D6053-7FFD-41AC-BF36-7B856320A122}

**ShortName:** SP.NavigationNode

Represents the URL to a specific navigation node and provides access to properties and methods for manipulating the ordering of the navigation node in a navigation node collection.

#### 3.2.5.96.1 Properties

##### 3.2.5.96.1.1 Scalar Properties

###### 3.2.5.96.1.1.1 Id

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the identifier for the navigation node.

###### 3.2.5.96.1.1.2 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **anchor text** for the navigation node link.

It MUST NOT be NULL. Its length MUST be equal to or less than 256.

### 3.2.5.96.1.1.3 Url

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL stored with the navigation node.

MUST NOT be a URL of relative form if the URL corresponds to a page that is outside of the site collection.

It MUST be a URL of relative or absolute form.

### 3.2.5.96.1.1.4 IsExternal

**Type:** CSOM Boolean

**Accessibility:** Read Only

Gets a Boolean value that specifies whether the navigation node URL corresponds to a page outside the site collection. [<71>](#)

### 3.2.5.96.1.1.5 IsVisible

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the navigation node is visible. [<72>](#)

## 3.2.5.96.1.2 ObjectPath Properties

### 3.2.5.96.1.2.1 Children

**Type:** Microsoft.SharePoint.Client.NavigationNodeCollection

**Accessibility:** Read Only

The collection of child nodes of the navigation node.

It MUST NOT be NULL.

## 3.2.5.96.2 Methods

### 3.2.5.96.2.1 Scalar Methods

#### 3.2.5.96.2.1.1 DeleteObject

**Return Type:** None

Deletes the navigation node.

**Parameters:** None

### 3.2.5.96.2.1.2 Update

**Return Type:** None

Updates property changes that have been made to the navigation node.

**Parameters:** None

### 3.2.5.96.2.2 ObjectPath Methods

None.

### 3.2.5.97 Microsoft.SharePoint.Client.NavigationNodeCollection

**TypeId:** {2D818ED7-8FEF-4A1C-BCEB-A9404DFA482F}

**ShortName:** SP.NavigationNodeCollection

A collection of navigation nodes.

### 3.2.5.97.1 Properties

#### 3.2.5.97.1.1 Scalar Properties

None.

#### 3.2.5.97.1.2 ObjectPath Properties

None.

### 3.2.5.97.2 Methods

#### 3.2.5.97.2.1 Scalar Methods

##### 3.2.5.97.2.1.1 MoveAfter

**Return Type:** None

Moves a navigation node after a specified navigation node in the navigation node collection. [<73>](#)

**Parameters:**

*nodeId*: Identifier of the navigation node that is moved.

Type: CSOM Int32

*previousNodeId*: Identifier of the navigation node after which the node identified by *nodeId* moves to.

Type: CSOM Int32

### 3.2.5.97.2.2 ObjectPath Methods

#### 3.2.5.97.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.NavigationNode

Creates a navigation node object (1) and adds it to the collection.

**Parameters:**

*parameters:* Describes the node to be created.

Type: Microsoft.SharePoint.Client.NavigationNodeCreationInformation

It MUST NOT be NULL.

#### 3.2.5.97.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.NavigationNode

Returns the navigation node with the specified identifier. [<74>](#) It MUST return NULL if no navigation node corresponds to the specified identifier.

**Parameters:**

*id:* Specifies the identifier of the navigation node.

Type: CSOM Int32

#### 3.2.5.97.2.2.3 GetByIndex

**Return Type:** Microsoft.SharePoint.Client.NavigationNode

Returns the navigation node at the specified index. [<75>](#)

**Parameters:**

*index:* The index of the navigation node to be returned.

Type: CSOM Int32

### 3.2.5.98 Microsoft.SharePoint.Client.NavigationNodeCreationInformation

**TypeId:** {7AAAAA605-79A9-4FDA-AE1E-DB952E5083E0}

**ShortName:** SP.NavigationNodeCreationInformation

Describes a new navigation node to be created.

#### 3.2.5.98.1 Properties

##### 3.2.5.98.1.1 Scalar Properties

###### 3.2.5.98.1.1.1 AsLastNode

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the navigation node is to be created as the last node in the collection. MUST have no effect if **PreviousNode** is not NULL.

### 3.2.5.98.1.1.2 IsExternal

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the navigation node URL potentially corresponds to pages outside of the site collection.

### 3.2.5.98.1.1.3 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the anchor text for the navigation node link.

Its length MUST be equal to or less than 256.

### 3.2.5.98.1.1.4 Url

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL to be stored with the navigation node.

## 3.2.5.98.1.2 ObjectPath Properties

### 3.2.5.98.1.2.1 PreviousNode

**Type:** Microsoft.SharePoint.Client.NavigationNode

**Accessibility:** Read/Write

Specifies the navigation node after which the new navigation node appears in the navigation node collection.

## 3.2.5.99 Microsoft.SharePoint.Client.PageType

**ShortName:** SP.PageType

**Flag:** false

As specified in [\[MS-WSSFO2\]](#) section 2.2.3.14.

### 3.2.5.99.1 Field Values

#### 3.2.5.99.1.1 Invalid

**Value:** -1

Specifies a page that does not correspond to a list view or a list form.

#### **3.2.5.99.1.2 DefaultView**

**Value:** 0

Specifies a page that is the default view for a list (1).

#### **3.2.5.99.1.3 NormalView**

**Value:** 1

Specifies a page that is a list view and is not the default view for a list (1).

#### **3.2.5.99.1.4 DialogView**

**Value:** 2

Specifies a page that can be displayed within a dialog box on a client computer.

#### **3.2.5.99.1.5 View**

**Value:** 3

Specifies a page that is a list view.

#### **3.2.5.99.1.6 DisplayForm**

**Value:** 4

Specifies a list form for displaying a list item.

#### **3.2.5.99.1.7 DisplayFormDialog**

**Value:** 5

Specifies a list form for displaying a list item within a dialog box on a client computer.

#### **3.2.5.99.1.8 EditForm**

**Value:** 6

Specifies a list form for editing a list item.

#### **3.2.5.99.1.9 EditFormDialog**

**Value:** 7

Specifies a list form for editing a list item that can be displayed within a dialog box on a client computer.

#### **3.2.5.99.1.10 NewForm**

**Value:** 8

Specifies a list form for creating a new list item.



### 3.2.5.99.1.11 NewFormDialog

**Value:** 9

Specifies a list form for creating a new list item that can be displayed within a dialog box on a client computer.

### 3.2.5.99.1.12 SolutionForm

**Value:** 10

Specifies a list form that is represented by a **form template (.xsn) file** and is used for displaying or editing a list item.

### 3.2.5.99.1.13 PAGE\_MAXITEMS

**Value:** 11

Represents the total number of valid page types.

### 3.2.5.100 Microsoft.SharePoint.Client.Principal

**TypeId:** {8A76E712-17A1-4A40-B2DF-CCA7C060D78F}

**ShortName:** SP.Principal

Specifies a base type that represents a user or group (2) that can be assigned permissions to control security.

#### 3.2.5.100.1 Properties

##### 3.2.5.100.1.1 Scalar Properties

###### 3.2.5.100.1.1.1 Id

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the member (1) identifier for the user or group (2).

Its value MUST be equal to or greater than 1. Its value MUST be equal to or less than 2147483647.

###### 3.2.5.100.1.1.2 LoginName

**Type:** CSOM String

**Accessibility:** Read Only

If this object (1) represents a user, **LoginName** specifies the **login name** of the user. For a group (2), it specifies the name of the group (2).

###### 3.2.5.100.1.1.3 PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of principal (1) represented by this object (1).

#### **3.2.5.100.1.1.4 Title**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the principal (1).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

#### **3.2.5.100.1.1.5 IsHiddenInUI**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the principal (1) is hidden in the user interface (UI).<76>

#### **3.2.5.100.1.2 ObjectPath Properties**

None.

#### **3.2.5.100.2 Methods**

##### **3.2.5.100.2.1 Scalar Methods**

None.

##### **3.2.5.100.2.2 ObjectPath Methods**

None.

#### **3.2.5.101 Microsoft.SharePoint.Client.PropertyValues**

**TypeId:** {3973524D-2D5A-4683-AA39-38A2ACC6E63C}

**ShortName:** SP.PropertyValues

Contains CSOM expando properties, which is a collection of name-value pairs. The CSOM expando field name is the name part in the name value pair. The CSOM expando field value is the value part in the name-value pair.

##### **3.2.5.101.1 Properties**

###### **3.2.5.101.1.1 Scalar Properties**

None.

###### **3.2.5.101.1.2 ObjectPath Properties**

None.

### 3.2.5.101.2 Methods

#### 3.2.5.101.2.1 Scalar Methods

##### 3.2.5.101.2.1.1 SetFieldValue

**Return Type:** None

Update the CSOM expando property value for a CSOM expando field name.

**Parameters:**

*fieldName:* Specify the name of a CSOM expando field.

Type: CSOM String

*value:* Specify the value of a CSOM expando field.

Type: System.Object

##### 3.2.5.101.2.2 ObjectPath Methods

None.

### 3.2.5.102 Microsoft.SharePoint.Client.QuickLaunchOptions

**ShortName:** SP.QuickLaunchOptions

**Flag:** false

Specifies whether the list (1) is displayed on the Quick Launch of the site (2).

#### 3.2.5.102.1 Field Values

##### 3.2.5.102.1.1 Off

**Value:** 0

Specifies that the list (1) is not displayed on the Quick Launch of the site (2).

##### 3.2.5.102.1.2 On

**Value:** 1

Specifies that the list (1) is displayed on the Quick Launch of the site (2).

##### 3.2.5.102.1.3 DefaultValue

**Value:** 2

Specifies that the list (1) is displayed on the Quick Launch of the site (2) if the **OnQuickLaunch** property of the **list definition** or list template of the associated list (1) is "true".

### 3.2.5.103 Microsoft.SharePoint.Client.RecycleBinItem

**TypeId:** {5EBF462E-9E9A-440C-992B-ABBB3916563D}

**ShortName:** SP.RecycleBinItem

Represents a Recycle Bin item in the Recycle Bin of a site (2) or a site collection.

### **3.2.5.103.1 Properties**

#### **3.2.5.103.1.1 Scalar Properties**

##### **3.2.5.103.1.1.1 DeletedDate**

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies when the Recycle Bin item was moved to the Recycle Bin.

##### **3.2.5.103.1.1.2 DirName**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the site-relative URL of the list (1) or folder that originally contained the Recycle Bin item.

It MUST NOT be NULL. It MUST be a URL of relative form. Its length MUST be equal to or less than 256.

##### **3.2.5.103.1.1.3 Id**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the Recycle Bin item.

It MUST NOT be an empty GUID.

##### **3.2.5.103.1.1.4 ItemState**

**Type:** Microsoft.SharePoint.Client.RecycleBinItemState

**Accessibility:** Read Only

Specifies the Recycle Bin stage of the Recycle Bin item.

It MUST NOT be None.

##### **3.2.5.103.1.1.5 ItemType**

**Type:** Microsoft.SharePoint.Client.RecycleBinItemType

**Accessibility:** Read Only

Specifies the type of the Recycle Bin item.

It MUST NOT be None.

### 3.2.5.103.1.1.6 LeafName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the leaf name of the Recycle Bin item.

It MUST NOT be NULL. Its length MUST be equal to or less than 128. It MUST NOT contain the following characters: \x00-\x1F, \x22, \x23, \x25, \x26, \x2A, \x3A, \x3C, x3E, \x3F, \x5C and \x7B-\x9F.

### 3.2.5.103.1.1.7 Size

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the size of the Recycle Bin item in bytes.

Its value MUST be equal to or greater than 0.

### 3.2.5.103.1.1.8 Title

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the title of the Recycle Bin item.

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

## 3.2.5.103.1.2 ObjectPath Properties

### 3.2.5.103.1.2.1 Author

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who created the Recycle Bin item.

### 3.2.5.103.1.2.2 DeletedBy

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who deleted the Recycle Bin item.

### 3.2.5.103.2 Methods

#### 3.2.5.103.2.1 Scalar Methods

##### 3.2.5.103.2.1.1 DeleteObject

**Return Type:** None

Permanently deletes the Recycle Bin item.

**Parameters:** None

##### 3.2.5.103.2.1.2 Restore

**Return Type:** None

Restores the Recycle Bin item to its original location.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024816	Microsoft.SharePoint.SPException	Another file or folder with the same name already exists in the original location.
- 2147024713	Microsoft.SharePoint.SPException	Another list (1) with the same name already exists in the original location.
- 2130575168	Microsoft.SharePoint.SPException	Recycle Bin item contains duplicate field (2) values for a field (2) where <b>Field.EnforceUniqueValues</b> is "true".

##### 3.2.5.103.2.2 ObjectPath Methods

None.

#### 3.2.5.104 Microsoft.SharePoint.Client.RecycleBinItemCollection

**TypeId:** {9BFB60CF-1ACA-484C-A845-5F2D4EF20865}

**ShortName:** SP.RecycleBinItemCollection

Specifies a collection of Recycle Bin items.

##### 3.2.5.104.1 Properties

###### 3.2.5.104.1.1 Scalar Properties

None.

###### 3.2.5.104.1.2 ObjectPath Properties

None.

## 3.2.5.104.2 Methods

### 3.2.5.104.2.1 Scalar Methods

#### 3.2.5.104.2.1.1 DeleteAll

**Return Type:** None

Permanently deletes all Recycle Bin items.

**Parameters:** None

#### 3.2.5.104.2.1.2 RestoreAll

**Return Type:** None

Restores all Recycle Bin items to their original locations.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024816	Microsoft.SharePoint.SPException	Another file or folder with the same name already exists in the original location.
- 2147024713	Microsoft.SharePoint.SPException	Another list (1) with the same name already exists in the original location.
- 2130575168	Microsoft.SharePoint.SPException	Recycle Bin item contains duplicate field (2) values for a field (2) where <b>Field.EnforceUniqueValues</b> is "true".

### 3.2.5.104.2.2 ObjectPath Methods

#### 3.2.5.104.2.2.1 GetById

**Return Type:** Microsoft.SharePoint.Client.RecycleBinItem

Returns the Recycle Bin item with the specified identifier from the collection.

**Parameters:**

*id*: Specifies the identifier of the Recycle Bin item.

Type: CSOM GUID

### 3.2.5.105 Microsoft.SharePoint.Client.RecycleBinItemState

**ShortName:** SP.RecycleBinItemState

**Flag:** false

Specifies the Recycle Bin stage of the Recycle Bin item.

### **3.2.5.105.1 Field Values**

#### **3.2.5.105.1.1 None**

**Value:** 0

The stage of the Recycle Bin item is not specified.

#### **3.2.5.105.1.2 FirstStageRecycleBin**

**Value:** 1

Specifies that the Recycle Bin item is in the user Recycle Bin.

#### **3.2.5.105.1.3 SecondStageRecycleBin**

**Value:** 2

Specifies that the Recycle Bin item is in the site collection Recycle Bin.

### **3.2.5.106 Microsoft.SharePoint.Client.RecycleBinItemType**

**ShortName:** SP.RecycleBinItemType

**Flag:** false

Specifies the type of the Recycle Bin item.

#### **3.2.5.106.1 Field Values**

##### **3.2.5.106.1.1 None**

**Value:** 0

The type of the Recycle Bin item is not specified.

##### **3.2.5.106.1.2 File**

**Value:** 1

Specifies that the Recycle Bin item is a file.

##### **3.2.5.106.1.3 FileVersion**

**Value:** 2

Specifies that the Recycle Bin item is a historical version of a file.

##### **3.2.5.106.1.4 ListItem**

**Value:** 3

Specifies that the Recycle Bin item is a list item.



### **3.2.5.106.1.5 List**

**Value:** 4

Specifies that the Recycle Bin item is a list (1).

### **3.2.5.106.1.6 Folder**

**Value:** 5

Specifies that the Recycle Bin item is a folder.

### **3.2.5.106.1.7 FolderWithLists**

**Value:** 6

Specifies that the Recycle Bin item is a folder that contains a list (1).

### **3.2.5.106.1.8 Attachment**

**Value:** 7

Specifies that the Recycle Bin item is an attachment.

### **3.2.5.106.1.9 ListItemVersion**

**Value:** 8

Specifies that the Recycle Bin item is a historical version of a list item.

### **3.2.5.106.1.10 CascadeParent**

**Value:** 9

Specifies that the Recycle Bin item is a list item that is the parent of one or more related list items.

### **3.2.5.106.1.11 Web**

**Value:** 10

Specifies that the Recycle Bin item is a site (2).<??>

### **3.2.5.107 Microsoft.SharePoint.Client.RelatedField**

**TypeId:** {A91DEB1A-2F24-4AC5-A1A6-3B1E530C307F}

**ShortName:** SP.RelatedField

Specifies properties of a relationship lookup field.

### **3.2.5.107.1 Properties**

#### **3.2.5.107.1.1 Scalar Properties**

##### **3.2.5.107.1.1.1 FieldId**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the field (2) identifier of the relationship lookup field.

##### **3.2.5.107.1.1.2 ListId**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the list (1) identifier of the relationship lookup field.

##### **3.2.5.107.1.1.3 RelationshipDeleteBehavior**

**Type:** Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**Accessibility:** Read Only

Specifies the relationship delete behavior.

##### **3.2.5.107.1.1.4 WebId**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the site (2) containing the target list (1) for the relationship lookup field.

#### **3.2.5.107.1.2 ObjectPath Properties**

##### **3.2.5.107.1.2.1 LookupList**

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read Only

Specifies the target list (1) of the relationship lookup field.

It MUST NOT be NULL.

#### **3.2.5.107.2 Methods**

##### **3.2.5.107.2.1 Scalar Methods**

None.

### 3.2.5.107.2.2 ObjectPath Methods

None.

### 3.2.5.108 Microsoft.SharePoint.Client.RelatedFieldCollection

**TypeId:** {4703193F-E3ED-445B-8612-7C6218E0EB5A}

**ShortName:** SP.RelatedFieldCollection

Specifies a collection of objects (1) storing properties of relationship lookup fields.

#### 3.2.5.108.1 Properties

##### 3.2.5.108.1.1 Scalar Properties

None.

##### 3.2.5.108.1.2 ObjectPath Properties

None.

#### 3.2.5.108.2 Methods

##### 3.2.5.108.2.1 Scalar Methods

None.

##### 3.2.5.108.2.2 ObjectPath Methods

###### 3.2.5.108.2.2.1 GetByFieldId

**Return Type:** Microsoft.SharePoint.Client.RelatedField

Returns the object (1) storing properties of relationship lookup fields with the specified relationship lookup field. [<78>](#)

**Parameters:**

*fieldId*: Specifies the identifier of the relationship lookup field.

Type: CSOM GUID

### 3.2.5.109 Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**ShortName:** SP.RelationshipDeleteBehaviorType

**Flag:** false

Specifies the optional relationship delete behavior of a relationship lookup field.

### 3.2.5.109.1 Field Values

#### 3.2.5.109.1.1 None

**Value:** 0

Specifies that no relationship delete behavior is applied.

#### 3.2.5.109.1.2 Cascade

**Value:** 1

Specifies the **cascading behavior**.

#### 3.2.5.109.1.3 Restrict

**Value:** 2

Specifies the **restrict behavior**.

### 3.2.5.110 Microsoft.SharePoint.Client.RequestContext

**TypeId:** {3747ADCD-A3C3-41B9-BFAB-4A64DD2F1E0A}

**ShortName:** SP.RequestContext

Specify the context information when a protocol server (2) processes the request from a protocol client.

#### 3.2.5.110.1 Properties

##### 3.2.5.110.1.1 Scalar Properties

None.

##### 3.2.5.110.1.2 ObjectPath Properties

###### 3.2.5.110.1.2.1 Current

**Type:** Microsoft.SharePoint.Client.RequestContext

**Accessibility:** Read Only

Specifies the current context information associated with the current request from a protocol client. It is a static property. The protocol server (2) MUST return a 404 HTTP status code if the site (2), which is the target of the request from a protocol client, does not exist.

###### 3.2.5.110.1.2.2 Site

**Type:** Microsoft.SharePoint.Client.Site

**Accessibility:** Read Only

The site collection that is the target of the request from a protocol client.

It MUST NOT be NULL.

### 3.2.5.110.1.2.3 Web

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read Only

The site (2) that is the target of the request from a protocol client.

It MUST NOT be NULL.

### 3.2.5.110.2 Methods

#### 3.2.5.110.2.1 Scalar Methods

None.

#### 3.2.5.110.2.2 ObjectPath Methods

None.

### 3.2.5.111 Microsoft.SharePoint.Client.RoleAssignment

**TypeId:** {07DA03BE-4D19-48F3-9C5F-7C67B134A93B}

**ShortName:** SP.RoleAssignment

Specifies the role assignments for a user or group (2) on a securable object.

#### 3.2.5.111.1 Properties

##### 3.2.5.111.1.1 Scalar Properties

###### 3.2.5.111.1.1.1 PrincipalId

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the identifier of the user or group (2) corresponding to the role assignment. [<79>](#)

##### 3.2.5.111.1.2 ObjectPath Properties

###### 3.2.5.111.1.2.1 Member

**Type:** Microsoft.SharePoint.Client.Principal

**Accessibility:** Read Only

Specifies the user or group (2) corresponding to the role assignment.

It MUST NOT be NULL. The identifier of the user or group (2) MUST be greater than zero.

###### 3.2.5.111.1.2.2 RoleDefinitionBindings

**Type:** Microsoft.SharePoint.Client.RoleDefinitionBindingCollection

**Accessibility:** Read Only

Specifies a collection of role definitions for this role assignment.

It MUST NOT be NULL.

### 3.2.5.111.2 Methods

#### 3.2.5.111.2.1 Scalar Methods

##### 3.2.5.111.2.1.1 DeleteObject

**Return Type:** None

Removes the role assignment object (1) from the parent role assignment collection.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	

##### 3.2.5.111.2.1.2 ImportRoleDefinitionBindings

**Return Type:** None

Imports the specified role definition bindings into the collection of role definitions for the role assignment.

**Parameters:**

*roleDefinitionBindings:* Specifies the role definition bindings to be imported.

Type: Microsoft.SharePoint.Client.RoleDefinitionBindingCollection

##### 3.2.5.111.2.1.3 Update

**Return Type:** None

Updates the role assignment object (1) with changes that have been made to its properties.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	

##### 3.2.5.111.2.2 ObjectPath Methods

None.

### 3.2.5.112 Microsoft.SharePoint.Client.RoleAssignmentCollection

**TypeId:** {2690207A-E174-4D49-B2CA-CFF663225DC1}

**ShortName:** SP.RoleAssignmentCollection

The object (1) represents a collection of role assignments for each securable object.

#### 3.2.5.112.1 Properties

##### 3.2.5.112.1.1 Scalar Properties

None.

##### 3.2.5.112.1.2 ObjectPath Properties

###### 3.2.5.112.1.2.1 Groups

**Type:** Microsoft.SharePoint.Client.GroupCollection

**Accessibility:** Read Only

A collection of groups (2) that is associated with this role assignment collection. [<80>](#)

#### 3.2.5.112.2 Methods

##### 3.2.5.112.2.1 Scalar Methods

###### 3.2.5.112.2.1.1 AddRoleAssignment

**Return Type:** None

Adds a role assignment to the role assignment collection. [<81>](#)

**Parameters:**

*principalId*: Specifies the user or group (2) of the role assignment.

Type: CSOM Int32

*roleDefId*: Specifies the role definition of the role assignment.

Type: CSOM Int32

###### 3.2.5.112.2.1.2 RemoveRoleAssignment

**Return Type:** None

Removes the role assignment with the specified user or group (2) from the collection. [<82>](#)

**Parameters:**

*principalId*: Specifies the user or group (2) of the role assignment.

Type: CSOM Int32

*roleDefId*: Specifies the identifier of the role definition of the role assignment.

Type: CSOM Int32

### 3.2.5.112.2.2 ObjectPath Methods

#### 3.2.5.112.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.RoleAssignment

Adds a role assignment to the role assignment collection.

**Parameters:**

*principal*: An object (1) that represents the user or group (2) of the role assignment.

Type: Microsoft.SharePoint.Client.Principal

It MUST NOT be NULL.

*roleBindings*: An object (1) that represents the collection of the role definitions to be associated with the role assignment that is added.

Type: Microsoft.SharePoint.Client.RoleDefinitionBindingCollection

It MUST NOT be NULL. It MUST have at least one child in the collection.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	

#### 3.2.5.112.2.2.2 GetByPrincipal

**Return Type:** Microsoft.SharePoint.Client.RoleAssignment

Retrieves the role assignment object (1) based on the specified user or group (2).

**Parameters:**

*principalToFind*: An object (1) that represents the user or group (2).

Type: Microsoft.SharePoint.Client.Principal

It MUST NOT be NULL.

#### 3.2.5.112.2.2.3 GetByPrincipalId

**Return Type:** Microsoft.SharePoint.Client.RoleAssignment

Retrieves the role assignment object (1) based on the **Id** property of the specified user or group (2).

**Parameters:**

*principalId*: An identifier of the object (1) that represents the user or group (2).



Type: CSOM Int32

### 3.2.5.113 Microsoft.SharePoint.Client.RoleDefinition

**TypeId:** {AA7ECB4A-9C7E-4AD9-BD20-58A2775E5AD7}

**ShortName:** SP.RoleDefinition

Defines a single role definition, including a name, description, management properties, and a set of **rights**.

#### 3.2.5.113.1 Properties

##### 3.2.5.113.1.1 Scalar Properties

###### 3.2.5.113.1.1.1 BasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read/Write

Specifies the base permissions for the role definition.

When assigning values to the property, use bitwise **AND**, **OR**, and **XOR** operators with values from the **BasePermissions** uint.

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Site (2) inherits permission levels from a <b>parent site</b> , and permission levels cannot be customized.

###### 3.2.5.113.1.1.2 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description of the role definition.

Its length MUST be equal to or less than 512.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Site (2) inherits permission levels from a parent site, and permission levels cannot be customized.

### 3.2.5.113.1.1.3 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the role definition is displayed.

### 3.2.5.113.1.1.4 Id

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the identifier of the role definition.

Its value MUST be equal to or greater than 1073741824.

### 3.2.5.113.1.1.5 Name

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the role definition name.

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255. MUST not contain any of the following characters: /\[|:|<>+=;,\*'""@

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Role definition is inherited from a parent site.

### 3.2.5.113.1.1.6 Order

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the order position of the object (1) in the site collection Permission Levels page.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	The user cannot customize permission levels in a site (2) with inherited permission levels.

### 3.2.5.113.1.1.7 RoleTypeKind

**Type:** Microsoft.SharePoint.Client.RoleType

**Accessibility:** Read Only

Specifies the type of the role definition.

Its value MUST be equal to or greater than 0. Its value MUST be equal to or less than 5.

### 3.2.5.113.1.2 ObjectPath Properties

None.

### 3.2.5.113.2 Methods

#### 3.2.5.113.2.1 Scalar Methods

##### 3.2.5.113.2.1.1 DeleteObject

**Return Type:** None

Deletes the role definition object (1)

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	Role definition type is either Guest or Administrator

##### 3.2.5.113.2.1.2 Update

**Return Type:** None

Updates the role definition with changes that have been made to its properties.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Role definition is inherited from a parent site.

#### 3.2.5.113.2.2 ObjectPath Methods

None.

### 3.2.5.114 Microsoft.SharePoint.Client.RoleDefinitionBindingCollection

**TypeId:** {07BF1941-6953-4761-B114-58374B4AAF57}

**ShortName:** SP.RoleDefinitionBindingCollection

Specifies the role definitions that are bound to a role assignment object (1).

### **3.2.5.114.1 Properties**

#### **3.2.5.114.1.1 Scalar Properties**

None.

#### **3.2.5.114.1.2 ObjectPath Properties**

None.

### **3.2.5.114.2 Methods**

#### **3.2.5.114.2.1 Scalar Methods**

##### **3.2.5.114.2.1.1 Add**

**Return Type:** None

Adds the specified role definition to the binding collection.

**Parameters:**

*roleDefinition*: Specifies the role definition to be added.

Type: Microsoft.SharePoint.Client.RoleDefinition

It MUST NOT be NULL.

##### **3.2.5.114.2.1.2 Remove**

**Return Type:** None

Removes the specified role definition from the binding collection.

**Parameters:**

*roleDefinition*: Specifies the role definition to be removed.

Type: Microsoft.SharePoint.Client.RoleDefinition

It MUST NOT be NULL.

##### **3.2.5.114.2.1.3 RemoveAll**

**Return Type:** None

Removes all role definitions from the binding collection.

**Parameters:** None

#### **3.2.5.114.2.2 ObjectPath Methods**

##### **3.2.5.114.2.2.1 GetById**

**Return Type:** Microsoft.SharePoint.Client.RoleDefinition

Returns a **SP.RoleDefinition** (section [3.2.5.113](#)) specified by the identifier of that **SP.RoleDefinition**.<83>

**Parameters:**

*id*: Specifies the identifier of the SP.RoleDefinition.

Type: CSOM Int32

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024809	System.ArgumentException	The role definition that the <b>SP.RoleDefinition</b> represents does not exist in the collection at the given scope.

### 3.2.5.114.2.2.2 CSOM Constructor

Create an object for holding a collection of role definitions binding information.<84>

**Parameters:** None

### 3.2.5.115 Microsoft.SharePoint.Client.RoleDefinitionCollection

**TypeId:** {964B9AB0-D026-4487-99D1-E06450963CC9}

**ShortName:** SP.RoleDefinitionCollection

Represents the collection of role definitions that are available within the site (2).

#### 3.2.5.115.1 Properties

##### 3.2.5.115.1.1 Scalar Properties

None.

##### 3.2.5.115.1.2 ObjectPath Properties

None.

#### 3.2.5.115.2 Methods

##### 3.2.5.115.2.1 Scalar Methods

None.

##### 3.2.5.115.2.2 ObjectPath Methods

###### 3.2.5.115.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.RoleDefinition

Adds a new role definition to the collection, based on the passed parameter.

**Parameters:**

*parameters*: An object (1) that represents the role definition to be added.

Type: Microsoft.SharePoint.Client.RoleDefinitionCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130575259	Microsoft.SharePoint.SPException	There are more than 1000 role definitions added to the same site (2)

### 3.2.5.115.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.RoleDefinition

Retrieves the role definition with the specified **Id** property from the collection.

**Parameters:**

*id*: Specifies the unique identifier of the role definition searched. The value of *id* does not correspond to the index of the role definition within the collection, but refers to the value of the **Id** property of the role definition.

Type: CSOM Int32

### 3.2.5.115.2.2.3 GetByName

**Return Type:** Microsoft.SharePoint.Client.RoleDefinition

Returns the role definition matching the *name* provided.

**Parameters:**

*name*: Specifies name of role definition.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255. Trimmed name MUST NOT be empty.

### 3.2.5.115.2.2.4 GetByType

**Return Type:** Microsoft.SharePoint.Client.RoleDefinition

Returns role definition of the specified type from the collection.

**Parameters:**

*roleType*: Specifies the role type. Role type MUST NOT be None.

Type: Microsoft.SharePoint.Client.RoleType

### 3.2.5.116 Microsoft.SharePoint.Client.RoleDefinitionCreationInformation

**TypeId:** {59EDDF82-1018-4677-8067-69E16EFD3495}

**ShortName:** SP.RoleDefinitionCreationInformation

Contains properties that are used as parameters to initialize a role definition.

### 3.2.5.116.1 Properties

#### 3.2.5.116.1.1 Scalar Properties

##### 3.2.5.116.1.1.1 BasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read/Write

Specifies the permissions for the role definition.

It MUST NOT be NULL.

##### 3.2.5.116.1.1.2 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a description of the role definition.

Its length MUST be equal to or less than 512.

##### 3.2.5.116.1.1.3 Name

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the role definition.

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

It MUST NOT contain any of the following characters: [ ] \ : | < > + = ; , ? \* ' @

##### 3.2.5.116.1.1.4 Order

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the order in which role definition are displayed.

#### 3.2.5.116.1.2 ObjectPath Properties

None.

### 3.2.5.117 Microsoft.SharePoint.Client.RoleType

**ShortName:** SP.RoleType

**Flag:** false

Specifies the types of role definitions that are available for users and groups (2).

### 3.2.5.117.1 Field Values

#### 3.2.5.117.1.1 None

**Value:** 0

The role definition has no rights on the site (2).

#### 3.2.5.117.1.2 Guest

**Value:** 1

The role definition has limited right to view pages and specific page elements. This role is used to give users access to a particular page, list (1), or item in a list (1), without granting rights to view the entire site (2). Users cannot be added explicitly to the guest role; users who are given access to lists (1) or document libraries by using permissions for a specific list (1) are added automatically to the guest role. The guest role cannot be customized or deleted.

#### 3.2.5.117.1.3 Reader

**Value:** 2

The role definition has a right to view items, personalize Web Parts, use alerts (1), and create a **top-level site**. A reader can only read a site (2); the reader cannot add content. When a reader creates a site (2), the reader becomes the site (2) owner and a member (1) of the administrator role for the new site (2). This does not affect the user's role membership for any other site (2). Rights included are *CreateSSCSite*, *ViewListItems*, and *ViewPages*.

#### 3.2.5.117.1.4 Contributor

**Value:** 3

The role definition has reader rights, and a right to add items, edit items, delete items, manage list (1) permissions, manage personal views, personalize Web Part Pages, and browse directories. Includes all rights in the reader role, and *AddDelPrivateWebParts*, *AddListItems*, *BrowseDirectories*, *CreatePersonalGroups*, *DeleteListItems*, *EditListItems*, *ManagePersonalViews*, and *UpdatePersonalWebParts* roles. Contributors cannot create new lists (1) or document libraries, but they can add content to existing lists (1) and document libraries.

#### 3.2.5.117.1.5 WebDesigner

**Value:** 4

The role definition has contributor rights and a right to cancel check out, delete items, manage lists (1), add and customize pages, define and apply themes and borders, and link style sheets. Includes all rights in the contributor role, and *AddAndCustomizePages*, *ApplyStyleSheets*, *ApplyThemeAndBorder*, *CancelCheckout*, and *ManageLists* roles. Web designers can modify the structure of the site (2) and create new lists (1) or document libraries.



### 3.2.5.117.1.6 Administrator

**Value:** 5

The role definition includes all rights from other roles, and a right to manage roles and view usage analysis data. It also includes all rights in the *WebDesigner* role, and *ManageListPermissions*, *ManageRoles*, *ManageSubwebs*, and *ViewUsageData* roles. The Administrator role cannot be customized or deleted. Members (1) of the Administrator role always have access to, or can grant themselves access to, any item in the site (2).

### 3.2.5.118 Microsoft.SharePoint.Client.SecurableObject

**TypeId:** {1B1BF348-994E-44FD-823F-0748F5AD94C8}

**ShortName:** SP.SecurableObject

An object (1) that can be assigned security permissions.

The *HasUniqueRoleAssignments* property is not included in the default scalar property set for this type.

#### 3.2.5.118.1 Properties

##### 3.2.5.118.1.1 Scalar Properties

###### 3.2.5.118.1.1.1 HasUniqueRoleAssignments

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the role assignments are uniquely defined for this securable object or inherited from a parent securable object. If the value is "false", role assignments are inherited from a parent securable object.

##### 3.2.5.118.1.2 ObjectPath Properties

###### 3.2.5.118.1.2.1 RoleAssignments

**Type:** Microsoft.SharePoint.Client.RoleAssignmentCollection

**Accessibility:** Read Only

The role assignments for the securable object.

###### 3.2.5.118.1.2.2 FirstUniqueAncestorSecurableObject

**Type:** Microsoft.SharePoint.Client.SecurableObject

**Accessibility:** Read Only

Specifies the object where role assignments for this object are defined. [<85>](#)

## 3.2.5.118.2 Methods

### 3.2.5.118.2.1 Scalar Methods

#### 3.2.5.118.2.1.1 BreakRoleInheritance

**Return Type:** None

Creates unique role assignments for the securable object. If the securable object already has unique role assignments, the protocol server (2) MUST NOT alter any role assignments.

**Parameters:**

*copyRoleAssignments:* Specifies whether to copy the role assignments from the parent securable object.

Type: CSOM Boolean

If the value is "false", the collection of role assignments MUST contain only 1 role assignment containing the current user after the operation.

*clearSubScopes:* If the securable object is a site (2), and the *clearSubScopes* parameter is "true", the role assignments for all child securable objects in the current site (2) and in the sites (2) that inherit role assignments from the current site (2) MUST be cleared and those securable objects inherit role assignments from the current site (2) after this call. If the securable object is a site (2), and the *clearSubScopes* parameter is "false", the role assignments for all child securable objects that do not inherit role assignments from their parent object (1) MUST remain unchanged. If the securable object is not a site (2), and the *clearSubScopes* parameter is "true", the role assignments for all child securable objects MUST be cleared and those securable objects inherit role assignments from the current securable object after this call. If the securable object is not a site (2), and the *clearSubScopes* parameter is "false", the role assignments for all child securable objects that do not inherit role assignments from their parent object (1) MUST remain unchanged.

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	There are uncommitted changes for the current site (2)

#### 3.2.5.118.2.1.2 ResetRoleInheritance

**Return Type:** None

Resets the role inheritance for the securable object and inherits role assignments from the parent securable object.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	There are uncommitted changes for the site (2).

### 3.2.5.118.2.2 ObjectPath Methods

None.

### 3.2.5.119 Microsoft.SharePoint.Client.Site

**TypeId:** {E1BB82E8-0D1E-4E52-B90C-684802AB4EF6}

**ShortName:** SP.Site

Represents a collection of sites (2) in a Web application (1), including a top-level site and all of its subsites.

The Usage property is not included in the default scalar property set for this type.

### 3.2.5.119.1 Properties

#### 3.2.5.119.1.1 Scalar Properties

##### 3.2.5.119.1.1.1 AllowDesigner

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a **designer** can be used on this site collection. See **Microsoft.SharePoint.Client.Web.AllowDesignerForCurrentUser**, which is the scalar property used to determine the behavior for the current user. The default, if not disabled on the Web application (1), is "true".

##### 3.2.5.119.1.1.2 AllowMasterPageEditing

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether master page editing is allowed on this site collection. See **Microsoft.SharePoint.Client.Web.AllowMasterPageEditingForCurrentUser**, which is the scalar property used to determine the behavior for the current user. The default, if not disabled on the Web application (1), is "false".

##### 3.2.5.119.1.1.3 AllowRevertFromTemplate

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether this site collection can be reverted to its base template. See **Microsoft.SharePoint.Client.Web.AllowRevertFromTemplateForCurrentUser**, which is the scalar property used to determine the behavior for the current user. The default, if not disabled on the Web application (1), is "false".

#### 3.2.5.119.1.1.4 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the GUID that identifies the site collection.

#### 3.2.5.119.1.1.5 MaxItemsPerThrottledOperation

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies the maximum number of list items allowed to be returned for each retrieve request before throttling occurs. If throttling occurs, list items MUST NOT be returned.

#### 3.2.5.119.1.1.6 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the top-level site in the site collection.

This property MUST begin with a forward slash ("/").

#### 3.2.5.119.1.1.7 ShowUrlStructure

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the URL structure of this site collection is viewable. See **Microsoft.SharePoint.Client.Web.ShowURLStructureForCurrentUser**, which is the scalar property used to determine the behavior for the current user. The default, if not disabled on the Web application (1), is "false".

#### 3.2.5.119.1.1.8 UIVersionConfigurationEnabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the **visual upgrade** UI for this site collection is displayed.

#### 3.2.5.119.1.1.9 Url

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the full URL of the site (2), including **host name**, port number and path.

This property MUST NOT end with a forward slash ("/").

### 3.2.5.119.1.1.10 Usage

**Type:** Microsoft.SharePoint.Client.UsageInfo

**Accessibility:** Read Only

Specifies usage information about the site (2), including bandwidth, storage, and the number of visits to the site collection.

### 3.2.5.119.1.1.11 CompatibilityLevel

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the compatibility level of the site collection for the purpose of major version level compatibility checks. [<86>](#)

### 3.2.5.119.1.1.12 LockIssue

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the comment that is used when a site collection is locked. [<87>](#)

### 3.2.5.119.1.1.13 ReadOnly

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the site collection is read-only and is unavailable for write access. [<88>](#)

### 3.2.5.119.1.1.14 CanUpgrade

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether this site collection is in an implementation specific valid state for site collection upgrade, **true** if it is; otherwise, **false**. [<89>](#)

### 3.2.5.119.1.1.15 AllowSelfServiceUpgrade

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether version-to-version site collection upgrade is allowed on this site collection. [<90>](#) **true** if it is; otherwise, **false**.

### 3.2.5.119.1.1.16 AllowSelfServiceUpgradeEvaluation

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether **upgrade evaluation site collection** is allowed to be created for this site collection. [<91>](#) **true** if it is; otherwise. **false**.

### 3.2.5.119.1.2 ObjectPath Properties

#### 3.2.5.119.1.2.1 Features

**Type:** Microsoft.SharePoint.Client.FeatureCollection

**Accessibility:** Read Only

Specifies the collection of the site collection features for the site collection that contains the site (2).

#### 3.2.5.119.1.2.2 RecycleBin

**Type:** Microsoft.SharePoint.Client.RecycleBinItemCollection

**Accessibility:** Read Only

Specifies the collection of Recycle Bin items for the site collection.

#### 3.2.5.119.1.2.3 RootWeb

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read Only

Specifies the top-level site of the site collection.

#### 3.2.5.119.1.2.4 UserCustomActions

**Type:** Microsoft.SharePoint.Client.UserCustomActionCollection

**Accessibility:** Read Only

Specifies the collection of user custom actions for the site collection.

#### 3.2.5.119.1.2.5 Owner

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read/Write

Specifies the owner of the site collection. [<92>](#)

#### 3.2.5.119.1.2.6 EventReceivers

**Type:** Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**Accessibility:** Read Only

Specifies the collection of event receivers of this site (2). [<93>](#)

## 3.2.5.119.2 Methods

### 3.2.5.119.2.1 Scalar Methods

#### 3.2.5.119.2.1.1 RunHealthCheck

**Return Type:** Microsoft.SharePoint.Administration.SiteHealth.SiteHealthSummary

Runs a health check as follows. <94> (The health rules referenced below perform an implementation-independent check on the health of a site collection.)

- If *ruleId* is not **Guid.Empty**, runs the specified site collection health rule and returns a summary of the results. If *ruleId* is **Guid.Empty**, runs all of the site collection health rules and returns a summary of the results.
- If *bRepair* is **true**, runs the specified rules in repair mode. In this case, and if a given rule is repairable, an attempt will be made to repair issues found by the rule, and the results from that attempted repairs are returned. If **bRepair** is **false**, an attempt to repair issues found is not made, and the method MUST NOT make changes to the site (2).
- If *bRunAlways* is **true**, rules are always run by this method, and the results are returned. If **false**, cached results from a recent previous run can be returned instead.

**Parameters:**

*ruleId*: Specifies the rule or rules to be run. If **Guid.Empty**, all rules are run, otherwise only the specified rule is run.

Type: CSOM GUID

*bRepair*: Specifies whether repairable rules are to be run in repair mode.

Type: CSOM Boolean

*bRunAlways*: If **true**, specifies that the specified rules MUST be run as a consequence of this call. If **false**, specifies that results can be returned from a cache of recent results.

Type: CSOM Boolean

#### 3.2.5.119.2.1.2 CreatePreviewSPSite

**Return Type:** None

Schedules the creation of an evaluation copy of the site collection for the purposes of evaluating an upgrade of the site collection to a newer version. <95>

**Parameters:**

*upgrade*: If **true**, the evaluation site collection MUST be upgraded when it is created. If **false**, the evaluation site collection MUST NOT be upgraded when it is created.

Type: CSOM Boolean

*sendemail*: If **true**, a notification email MUST be sent to the requestor and the site collection administrators at the completion of the creation of the evaluation site collection. If **false**, such notification MUST NOT be sent.

Type: CSOM Boolean

### 3.2.5.119.2.1.3 ExtendUpgradeReminderDate

**Return Type:** None

Extend the upgrade reminder date for this site collection, so that site collection administrators will not be reminded to run site collection upgrade before the new date. [<96>](#)

**Parameters:** None

### 3.2.5.119.2.1.4 Invalidate

**Return Type:** None

Invalidates cached upgrade information about the site collection so that this information will be recomputed the next time it is needed. [<97>](#)

**Parameters:** None

### 3.2.5.119.2.1.5 NeedsUpgradeByType

**Return Type:** CSOM Boolean

Returns **true** if this site collection requires site collection upgrade of the specified type; otherwise, **false**. [<98>](#)

**Parameters:**

*versionUpgrade*: True if version-to-version site collection upgrade is requested, otherwise false for build-to-build site collection upgrade.

Type: CSOM Boolean

*recursive*: True if child upgradable objects should be inspected, otherwise false.

Type: CSOM Boolean

### 3.2.5.119.2.1.6 RunUpgradeSiteSession

**Return Type:** None

Either runs a site collection upgrade, or schedules it to be run in the future, depending on available system resources and the value of the *queueOnly* parameter. [<99>](#)

**Parameters:**

*versionUpgrade*: If **true**, specifies that a version-to-version upgrade should be performed. If **false**, specifies that a build-to-build upgrade should be performed.

Type: CSOM Boolean

*queueOnly*: Specifies that the upgrade MUST NOT be run immediately; it MUST be queued for a later run.

Type: CSOM Boolean



## 3.2.5.119.2.2 ObjectPath Methods

### 3.2.5.119.2.2.1 GetCatalog

**Return Type:** Microsoft.SharePoint.Client.List

Specifies the list template gallery (1), site template gallery (1), Web Part gallery (1), master page gallery (1), or other galleries (1) from the site collection, including custom galleries (1) that are defined by users.

This method requires permissions to the top-level site of the site collection, which is where the galleries (1) are located.

**Parameters:**

*typeCatalog*: Specifies the type of list template for the gallery (1).

Type: CSOM Int32

### 3.2.5.119.2.2.2 GetChanges

**Return Type:** Microsoft.SharePoint.Client.ChangeCollection

Specifies the collection of the site collection changes from the change log that have occurred within the scope of the site collection, based on the specified query.

**Parameters:**

*query*: Specifies the query to be used to build the collection of site collection changes to be returned.

Type: Microsoft.SharePoint.Client.ChangeQuery

### 3.2.5.119.2.2.3 GetCustomListTemplates

**Return Type:** Microsoft.SharePoint.Client.ListTemplateCollection

Specifies the collection of custom list templates for a given site (2).

**Parameters:**

*web*: Specifies the site (2) that contains the custom list templates to be returned.

Type: Microsoft.SharePoint.Client.Web

### 3.2.5.119.2.2.4 OpenWeb

**Return Type:** Microsoft.SharePoint.Client.Web

Opens a new site (2) by using the specified URL.

**Parameters:**

*strUrl*: Specifies the server-relative URL or site-relative URL of the site (2) to open. If **strUrl** is empty, the top-level site MUST be opened.

Type: CSOM String

It MUST NOT be NULL.

### 3.2.5.119.2.2.5 OpenWebById

**Return Type:** Microsoft.SharePoint.Client.Web

Returns the site (2) with the specified GUID.

**Parameters:**

*gWebId*: A GUID that specifies which site (2) to return.

Type: CSOM GUID

### 3.2.5.119.2.2.6 GetWebTemplates

**Return Type:** Microsoft.SharePoint.Client.WebTemplateCollection

Returns the collection of **site definitions** that are available for creating **Web sites (2)** within the site collection. <100>

**Parameters:**

*LCID*: A 32-bit unsigned integer that specifies the language of the site definitions that are returned from the site collection.

Type: CSOM UInt32

*overrideCompatLevel*: Specifies the compatibility level of the site (2) to return from the site collection. If this value is 0, the compatibility level of the site (2) is used.

Type: CSOM Int32

### 3.2.5.120 Microsoft.SharePoint.Client.SubwebQuery

**TypeId:** {E3A4D63C-876B-4E24-A972-7664437146FE}

**ShortName:** SP.SubwebQuery

#### 3.2.5.120.1 Properties

##### 3.2.5.120.1.1 Scalar Properties

###### 3.2.5.120.1.1.1 ConfigurationFilter

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the site template used to provision this site (2). **ConfigurationFilter** defaults to -1, which means that the query does not filter by site template. **ConfigurationFilter** MUST NOT be less than -1.

###### 3.2.5.120.1.1.2 WebTemplateFilter

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the template used in the site definition to define the base structure of this site (2).

**WebTemplateFilter** defaults to -1, which means that the query does not filter by any template.

**WebTemplateFilter** MUST NOT be less than -1.

### 3.2.5.120.1.2 ObjectPath Properties

None.

### 3.2.5.121 Microsoft.SharePoint.Client.TemplateFileType

**ShortName:** SP.TemplateFileType

**Flag:** false

Specifies the type of template used for uncustomized file creation.

#### 3.2.5.121.1 Field Values

##### 3.2.5.121.1.1 StandardPage

**Value:** 0

Specifies default view template.

##### 3.2.5.121.1.2 WikiPage

**Value:** 1

Specifies default wiki template.

##### 3.2.5.121.1.3 FormPage

**Value:** 2

Specifies default form (1) template.

### 3.2.5.122 Microsoft.SharePoint.Client.UrlFieldFormatType

**ShortName:** SP.UrlFieldFormatType

**Flag:** false

Specifies the display format of the field (2).

#### 3.2.5.122.1 Field Values

##### 3.2.5.122.1.1 Hyperlink

**Value:** 0

Specify that the value MUST be displayed as a hyperlink.

### 3.2.5.122.1.2 Image

**Value:** 1

Specify that the value MUST be displayed as an image.

### 3.2.5.123 Microsoft.SharePoint.Client.UsageInfo

**TypeId:** {7EC28504-35F9-4FCF-A09F-401024417292}

**ShortName:** SP.UsageInfo

#### 3.2.5.123.1 Properties

##### 3.2.5.123.1.1 Scalar Properties

###### 3.2.5.123.1.1.1 Bandwidth

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the cumulative bandwidth, in bytes, used by the site collection during an implementation specific period.

Its value MUST be equal to or greater than 0.

###### 3.2.5.123.1.1.2 DiscussionStorage

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the total amount of disk space, in bytes, currently being used to store Web discussion comments in the site collection.

Its value MUST be equal to or greater than 0.

###### 3.2.5.123.1.1.3 Hits

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the cumulative number of requests for pages in the site collection during an implementation specific period.

Its value MUST be equal to or greater than 0.

###### 3.2.5.123.1.1.4 Storage

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the total amount of disk space, in bytes, currently being used by the site collection.

Its value MUST be equal to or greater than 0.

### 3.2.5.123.1.1.5 StoragePercentageUsed

**Type:** CSOM Double

**Accessibility:** Read Only

Specifies the ratio of the amount of disk space currently being used by the site collection to the maximum disk space specified in the **site collection quota**.

The server (2) MUST return 0 if no maximum available storage is specified in the site collection quota

Its value MUST be equal to or greater than 0. Its value MUST be equal to or less than 1.

### 3.2.5.123.1.1.6 Visits

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the cumulative number of requests for pages in the site collection, with no **HTTP referer**, or a HTTP referer outside of the current site collection during an implementation-specific period.

Its value MUST be equal to or greater than 0.

### 3.2.5.123.1.2 ObjectPath Properties

None.

### 3.2.5.124 Microsoft.SharePoint.Client.User

**TypeId:** {AE70D2A4-EC46-4ED9-9B1E-9D0245754463}

**ShortName:** SP.User

Specifies a user.

#### 3.2.5.124.1 Properties

##### 3.2.5.124.1.1 Scalar Properties

###### 3.2.5.124.1.1.1 Email

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the e-mail address of the user.

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The property is read when either the user object (1) was not successfully initialized or the user could not be found.
-1	Microsoft.SharePoint.SPException	The property is set when either the user object (1) was not successfully initialized or the user could not be found.

### 3.2.5.124.1.1.2 Id

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the member (1) identifier of the user. See **Microsoft.SharePoint.Client.Principal.Id**, as specified in section [3.2.5.100.1.1.1](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The user object (1) was not successfully initialized or the user could not be found.

### 3.2.5.124.1.1.3 LoginName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the login name of the user.

Its length MUST be equal to or less than 251.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The user object (1) was not successfully initialized or the user could not be found.

### 3.2.5.124.1.1.4 PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of principal (1) represented by this object (1).

If the user is a domain group (2), this MUST be **PrincipalType.SecurityGroup**. Otherwise it MUST be **PrincipalType.User**.

### 3.2.5.124.1.1.5 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name of the user.

It MUST NOT be empty. Its length MUST be equal to or less than 255.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The property is read when either the user object (1) was not successfully initialized or the user could not be found.
-1	Microsoft.SharePoint.SPException	The property is set when either the user object (1) was not successfully initialized or the user could not be found.

### 3.2.5.124.1.1.6 IsSiteAdmin

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the user is the site collection administrator for this site collection. <101>

### 3.2.5.124.1.1.7 IsHiddenInUI

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Principal.IsHiddenInUI**, as specified in section [3.2.5.100.1.1.5.<102>](#)

## 3.2.5.124.1.2 ObjectPath Properties

### 3.2.5.124.1.2.1 Groups

**Type:** Microsoft.SharePoint.Client.GroupCollection

**Accessibility:** Read Only

Gets the groups (2) that this **User** (section [3.2.5.124](#)) is a member of. <103>

## 3.2.5.124.2 Methods

### 3.2.5.124.2.1 Scalar Methods

#### 3.2.5.124.2.1.1 Update

**Return Type:** None

Updates the user with changes that have been made to the user properties.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575338	Microsoft.SharePoint.SPException	

### 3.2.5.124.2.2 ObjectPath Methods

None.

### 3.2.5.125 Microsoft.SharePoint.Client.UserCollection

**TypeId:** {E090781E-8899-4672-9B3D-A78F49FAD19D}

**ShortName:** SP.UserCollection

Represents a collection of user objects (1).

#### 3.2.5.125.1 Properties

##### 3.2.5.125.1.1 Scalar Properties

None.

##### 3.2.5.125.1.2 ObjectPath Properties

None.

#### 3.2.5.125.2 Methods

##### 3.2.5.125.2.1 Scalar Methods

###### 3.2.5.125.2.1.1 Remove

**Return Type:** None

Removes the user specified by the parameter from the collection.

**Parameters:**

*user*: A user to remove from the collection

Type: Microsoft.SharePoint.Client.User

It MUST NOT be NULL.

###### 3.2.5.125.2.1.2 RemoveById

**Return Type:** None

Removes the user with the specified member identifier from the collection. [<104>](#)



**Parameters:**

*id*: Specifies the member identifier.

Type: CSOM Int32

**3.2.5.125.2.1.3 RemoveByLoginName**

**Return Type:** None

Removes the user with the specified user name from the collection. <105>

**Parameters:**

*loginName*: A string that contains the user name.

Type: CSOM String

**3.2.5.125.2.2 ObjectPath Methods**

**3.2.5.125.2.2.1 Add**

**Return Type:** Microsoft.SharePoint.Client.User

Adds the user specified by the user creation information parameter to the collection.

**Parameters:**

*parameters*: An object (1) containing information about the user to be added.

Type: Microsoft.SharePoint.Client.UserCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The collection is read-only.
-1	System.Security.SecurityException	The collection is the farm administrators group (2) and the specified user is not a computer administrator.

**3.2.5.125.2.2.2 AddUser**

**Return Type:** Microsoft.SharePoint.Client.User

Adds the user specified by the user parameter to the collection and returns a reference (3) to the added SP.User.

**Parameters:**

*user*: A user to add

Type: Microsoft.SharePoint.Client.User

### Exceptions:

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The collection is read-only
-1	System.Security.SecurityException	The collection is the farm administrators group (2) and the specified user is not a computer administrator.

#### 3.2.5.125.2.2.3 GetByEmail

**Return Type:** Microsoft.SharePoint.Client.User

Returns the user with the specified e-mail address.

**Parameters:**

*emailAddress:* A string that contains the e-mail address of the user.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

#### 3.2.5.125.2.2.4 GetById

**Return Type:** Microsoft.SharePoint.Client.User

Returns the user with the specified member (1) identifier.

**Parameters:**

*id:* Specifies the member (1) identifier.

Type: CSOM Int32

#### 3.2.5.125.2.2.5 GetByLoginName

**Return Type:** Microsoft.SharePoint.Client.User

Returns the user with the specified login name.

**Parameters:**

*loginName:* A string that contains the login name of the user.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 251.

#### 3.2.5.126 Microsoft.SharePoint.Client.UserCreationInformation

**TypeId:** {6ECD8AF6-BED3-4A74-BE76-1EC981B350E1}

**ShortName:** SP.UserCreationInformation

Contains properties that are used as parameters to initialize a user.

### 3.2.5.126.1 Properties

#### 3.2.5.126.1.1 Scalar Properties

##### 3.2.5.126.1.1.1 Email

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the e-mail address for the user to be created.

Its length MUST be equal to or less than 255.

##### 3.2.5.126.1.1.2 LoginName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the login name for the user to be created.

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 251.

##### 3.2.5.126.1.1.3 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name for the user to be created.

Its length MUST be equal to or less than 255.

#### 3.2.5.126.1.2 ObjectPath Properties

None.

### 3.2.5.127 Microsoft.SharePoint.Client.UserCustomAction

**TypeId:** {232F8709-5DFD-44CF-A35B-7D8538C9336E}

**ShortName:** SP.UserCustomAction

Specifies a custom action.

#### 3.2.5.127.1 Properties

##### 3.2.5.127.1.1 Scalar Properties

##### 3.2.5.127.1.1.1 CommandUIExtension

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies an implementation-specific XML fragment that determines user interface properties of the custom action.

It MUST be an XML fragment.

#### **3.2.5.127.1.1.2 Description**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description for the custom action.

#### **3.2.5.127.1.1.3 Group**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies an implementation-specific value that determines the position of the custom action on the page.

#### **3.2.5.127.1.1.4 Id**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the custom action.

#### **3.2.5.127.1.1.5 ImageUrl**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL for the icon of the custom action.

It MUST be NULL, a server-relative URL, or an absolute URL.

#### **3.2.5.127.1.1.6 Location**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies an implementation-specific value that determines which pages display the custom action.

#### **3.2.5.127.1.1.7 Name**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the custom action.

### 3.2.5.127.1.1.8 RegistrationId

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the identifier of the object (1) associated with the custom action. It MUST be a list identifier or list template if *RegistrationType* is

**Microsoft.SharePoint.Client.UserCustomActionRegistrationType.List**. It MUST be a content type identifier if *RegistrationType* is

**Microsoft.SharePoint.Client.UserCustomActionRegistrationType.ContentType**. It MUST be a **ProgID** if *RegistrationType* is

**Microsoft.SharePoint.Client.UserCustomActionRegistrationType.ProgId**. It MUST be a **file extension** if *RegistrationType* is

**Microsoft.SharePoint.Client.UserCustomActionRegistrationType.FileType**.

### 3.2.5.127.1.1.9 RegistrationType

**Type:** Microsoft.SharePoint.Client.UserCustomActionRegistrationType

**Accessibility:** Read/Write

Specifies the type of object (1) associated with the custom action. It MUST be a list (1) if the *RegistrationId* is a list identifier or list template. It MUST be **ContentType** if the *RegistrationId* is a content type identifier. It MUST be ProgID if the **RegistrationId** is a ProgID. It MUST be FileType if the *RegistrationId* is a file extension.

### 3.2.5.127.1.1.10 Rights

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read/Write

Specifies the permissions needed for the custom action.

It MUST NOT be NULL.

### 3.2.5.127.1.1.11 Scope

**Type:** Microsoft.SharePoint.Client.UserCustomActionScope

**Accessibility:** Read Only

Specifies the scope of the custom action.

### 3.2.5.127.1.1.12 ScriptBlock

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the [\[ECMA-262\]](#) script to be executed when the custom action is performed. It MUST be NULL if *Location* is not "ScriptLink".

### 3.2.5.127.1.1.13 ScriptSrc

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URI of a file that contains the [\[ECMA-262\]](#) script to execute on the page. It MUST be NULL if *Location* is not "ScriptLink".

It MUST be NULL, or a server-relative URL.

### 3.2.5.127.1.1.14 Sequence

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies an implementation-specific value that determines the order of the custom action that appears on the page.

Its value MUST be equal to or greater than 0. Its value MUST be equal to or less than 65536.

### 3.2.5.127.1.1.15 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name for the custom action.

### 3.2.5.127.1.1.16 Url

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URI to navigate to when the custom action is called.

It MUST be NULL or a URI. If it is a URL, it MUST be a server-relative URL.

### 3.2.5.127.1.1.17 VersionOfUserCustomAction

**Type:** CSOM String

**Accessibility:** Read Only

Specifies an implementation specific version identifier.

It MUST NOT be NULL.

### 3.2.5.127.1.2 ObjectPath Properties

None.

### 3.2.5.127.2 Methods

#### 3.2.5.127.2.1 Scalar Methods

##### 3.2.5.127.2.1.1 DeleteObject

**Return Type:** None

Deletes the custom action.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130575305	Microsoft.SharePoint.SPException	Custom action was modified on the server (2) in a way that prevents changes from being committed, as determined by the protocol server.

##### 3.2.5.127.2.1.2 Update

**Return Type:** None

Commits changed properties of custom action.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130575305	Microsoft.SharePoint.SPException	Custom action was modified on the server (2) in a way that prevents changes from being committed, as determined by the protocol server.

##### 3.2.5.127.2.2 ObjectPath Methods

None.

#### 3.2.5.128 Microsoft.SharePoint.Client.UserCustomActionCollection

**TypeId:** {70D1CB2D-D304-4D96-9B54-74B3F400FA28}

**ShortName:** SP.UserCustomActionCollection

Specifies a collection of custom actions.

##### 3.2.5.128.1 Properties

###### 3.2.5.128.1.1 Scalar Properties

None.

### 3.2.5.128.1.2 ObjectPath Properties

None.

### 3.2.5.128.2 Methods

#### 3.2.5.128.2.1 Scalar Methods

##### 3.2.5.128.2.1.1 Clear

**Return Type:** None

Deletes all custom actions in the collection.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130575305	Microsoft.SharePoint.SPException	Custom action was modified on the server (2) in a way that prevents changes from being committed, as determined by the protocol server.

#### 3.2.5.128.2.2 ObjectPath Methods

##### 3.2.5.128.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.UserCustomAction

Adds a custom action to the collection.

**Parameters:** None

##### 3.2.5.128.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.UserCustomAction

Returns the custom action with the specified identifier. It MUST return NULL if no custom action corresponds to the specified identifier.

**Parameters:**

*userCustomActionId*: Specifies the identifier of the custom action.

Type: CSOM GUID

### 3.2.5.129 Microsoft.SharePoint.Client.UserCustomActionRegistrationType

**ShortName:** SP.UserCustomActionRegistrationType

**Flag:** false

Specifies the type of object (1) associated with the custom action.



### **3.2.5.129.1 Field Values**

#### **3.2.5.129.1.1 None**

**Value:** 0

Specifies that the object (1) association is not specified.

#### **3.2.5.129.1.2 List**

**Value:** 1

Specifies that the custom action is associated with a list (1).

#### **3.2.5.129.1.3 ContentType**

**Value:** 2

Specifies that the custom action is associated with a content type.

#### **3.2.5.129.1.4 ProgId**

**Value:** 3

Specifies that the custom action is associated with a ProgID.

#### **3.2.5.129.1.5 FileType**

**Value:** 4

Specifies that the custom action is associated with a file extension.

### **3.2.5.130 Microsoft.SharePoint.Client.UserCustomActionScope**

**ShortName:** SP.UserCustomActionScope

**Flag:** false

Specifies the scope of the custom action.

#### **3.2.5.130.1 Field Values**

##### **3.2.5.130.1.1 Unknown**

**Value:** 0

Specifies that the scope of the custom action is not specified.

##### **3.2.5.130.1.2 Site**

**Value:** 2

Specifies that the scope of the custom action is limited to a site collection.

### 3.2.5.130.1.3 Web

**Value:** 3

Specifies that the scope of the custom action is limited to a site (2).

### 3.2.5.130.1.4 List

**Value:** 4

Specifies that the scope of the custom action is limited to a list (1).

### 3.2.5.131 Microsoft.SharePoint.Client.Utilities.DateTimeFormat

**ShortName:** SP.Utilities.DateTimeFormat

**Flag:** false

Specifies the date and time format.

#### 3.2.5.131.1 Field Values

##### 3.2.5.131.1.1 DateTime

**Value:** 0

Specifies that both date and time are included.

##### 3.2.5.131.1.2 DateOnly

**Value:** 1

Specifies that only the date is included.

##### 3.2.5.131.1.3 TimeOnly

**Value:** 2

Specifies that only time is included.

##### 3.2.5.131.1.4 ISO8601

**Value:** 3

Specifies that the format is [ISO-8601](#) time format YYYY-MM-DDTHH:MM:SSZ.

##### 3.2.5.131.1.5 MonthDayOnly

**Value:** 4

Specifies that only the month and day are included.

##### 3.2.5.131.1.6 MonthYearOnly

**Value:** 5

Specifies that only the month and year are included.

### **3.2.5.131.1.7 LongDate**

**Value:** 6

Specifies that the date is in long format including the day of week, day, month and year. [<106>](#)

### **3.2.5.131.1.8 UnknownFormat**

**Value:** 7

Specifies that the date parsing code should ignore the format mask when attempting to parse the given date. [<107>](#)

### **3.2.5.132 Microsoft.SharePoint.Client.Utilities.IconSize**

**ShortName:** SP.Utilities.IconSize

**Flag:** false

Specifies the icon size.

#### **3.2.5.132.1 Field Values**

##### **3.2.5.132.1.1 Size16**

**Value:** 0

Specifies the icon size to be 16 x 16 pixels.

##### **3.2.5.132.1.2 Size32**

**Value:** 1

Specifies the icon size to be 32 x 32 pixels.

##### **3.2.5.132.1.3 Size256**

**Value:** 2

Specifies an icon size of 256 x 256 pixels. [<108>](#)

### **3.2.5.133 Microsoft.SharePoint.Client.Utilities.PrincipalInfo**

**TypeId:** {C88E4D2E-768D-4065-9DA4-D2880E08733E}

**ShortName:** SP.Utilities.PrincipalInfo

Provides access to information about a principal (1).

### **3.2.5.133.1 Properties**

#### **3.2.5.133.1.1 Scalar Properties**

##### **3.2.5.133.1.1.1 Department**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the department name of the principal (1).

##### **3.2.5.133.1.1.2 DisplayName**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name of the principal (1).

##### **3.2.5.133.1.1.3 Email**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the e-mail address of the principal (1).

##### **3.2.5.133.1.1.4 JobTitle**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the job title of the principal (1).

##### **3.2.5.133.1.1.5 LoginName**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the login name of the principal (1).

##### **3.2.5.133.1.1.6 Mobile**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the number of a **mobile device** of the principal (1).

##### **3.2.5.133.1.1.7 PrincipalId**

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies an identifier for the principal (1). It MUST be -1 if the principal (1) does not belong to the current site (2).

### 3.2.5.133.1.1.8 PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of principal (1).

It MUST NOT be a combination of more than one member (1) of the **PrincipalType** enumeration. It MUST NOT be PrincipalType.All.

### 3.2.5.133.1.1.9 SIPAddress

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the **Session Initiation Protocol (SIP)** address of the principal (1).

### 3.2.5.133.1.2 ObjectPath Properties

None.

### 3.2.5.134 Microsoft.SharePoint.Client.Utilities.PrincipalSource

**ShortName:** SP.Utilities.PrincipalSource

**Flag:** true

Specifies the source of a principal (1).

#### 3.2.5.134.1 Field Values

##### 3.2.5.134.1.1 None

**Value:** 0

Specifies no principal (1) source.

##### 3.2.5.134.1.2 UserInfoList

**Value:** 1

Specifies user information list as the principal (1) source.

##### 3.2.5.134.1.3 Windows

**Value:** 2

Specifies **Active Directory** as the principal (1) source.

#### **3.2.5.134.1.4 MembershipProvider**

**Value:** 4

Specifies the current membership provider as the principal (1) source.

#### **3.2.5.134.1.5 RoleProvider**

**Value:** 8

Specifies the current role provider as the principal (1) source.

#### **3.2.5.134.1.6 All**

**Value:** 15

Specifies all principal (1) sources.

#### **3.2.5.135 Microsoft.SharePoint.Client.Utilities.PrincipalType**

**ShortName:** SP.Utilities.PrincipalType

**Flag:** true

Specifies the type of a principal (1).

##### **3.2.5.135.1 Field Values**

###### **3.2.5.135.1.1 None**

**Value:** 0

Specifies no principal (1) type.

###### **3.2.5.135.1.2 User**

**Value:** 1

Specifies a user as the principal (1) type.

###### **3.2.5.135.1.3 DistributionList**

**Value:** 2

Specifies a **distribution list** as the principal (1) type.

###### **3.2.5.135.1.4 SecurityGroup**

**Value:** 4

Specifies a **security group** as the principal (1) type.

###### **3.2.5.135.1.5 SharePointGroup**

**Value:** 8

Specifies a group (2) as the principal (1) type.

### 3.2.5.135.1.6 All

**Value:** 15

Specifies all principal (1) types.

### 3.2.5.136 Microsoft.SharePoint.Client.Utilities.Utility

**TypeId:** {16F43E7E-BF35-475D-B677-9DC61E549339}

**ShortName:** SP.Utilities.Utility

Provides tools for converting date and time formats, for obtaining information from user names, for modifying access to sites (2), and for various other tasks (2) in managing deployment. All methods in SP.Utilities.Utility are static.

#### 3.2.5.136.1 Properties

##### 3.2.5.136.1.1 Scalar Properties

None.

##### 3.2.5.136.1.2 ObjectPath Properties

None.

#### 3.2.5.136.2 Methods

##### 3.2.5.136.2.1 Scalar Methods

###### 3.2.5.136.2.1.1 CreateEmailBodyForInvitation

This method is a static CSOM method.

**Return Type:** CSOM String

Creates the contents of the e-mail message used to invite users to a document or resource in a site (2).

**Parameters:**

*pageAddress:* Specifies part of the display name for the document or resource.

Type: CSOM String

###### 3.2.5.136.2.1.2 FormatDateTime

This method is a static CSOM method.

**Return Type:** CSOM String

Returns a string representation of a **DateTime** value based on the **regional settings** of the site (2) and current user.

**Parameters:**

*web*: Specifies the site (2) to be used when formatting the value.

Type: Microsoft.SharePoint.Client.Web

*datetime*: Specifies the value to be formatted.

Type: CSOM DateTime

*format*: Specifies the date and time format of the result.

Type: Microsoft.SharePoint.Client.Utilities.DateTimeFormat

**3.2.5.136.2.1.3 GetCurrentUserEmailAddresses**

This method is a static CSOM method.

**Return Type:** CSOM String

Returns the e-mail addresses of the current user. If more than one e-mail address exists for the current user, returns a list of e-mail addresses separated by semi-colons.

**Parameters:** None

**3.2.5.136.2.1.4 ResolvePrincipal**

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.Utilities.PrincipalInfo

Returns information about a principal (1) that matches the specified search criteria. If no matches are found, the protocol server (2) MUST return NULL.

**Parameters:**

*web*: Specifies the site (2) to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

*input*: Specifies the value to be used when searching for a principal (1).

Type: CSOM String

If this is not the display name, e-mail address, or login name of a principal (1), the server (2) MUST return NULL.

Its length MUST be equal to or less than 255.

*scopes*: Specifies the type to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Utilities.PrincipalType

*sources*: Specifies the source to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Utilities.PrincipalSource



*usersContainer*: Specifies the collection of users to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.UserCollection

*inputIsEmailOnly*: Specifies whether only the e-mail address is used when searching for a principal (1).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024891	System.UnauthorizedAccessException	The current user has insufficient permissions.

**3.2.5.136.2.1.5 SearchPrincipals**

This method is a static CSOM method.

**Return Type:** CSOM Array

Returns the collection of principals (1) that partially or uniquely match the specified search criteria.

**Parameters:**

*web*: Specifies the site (2) to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

*input*: Specifies the value to be used when searching for a principal (1).

Type: CSOM String

If this is not the display name, e-mail address, or login name of a principal (1), the server (2) MUST return an empty collection.

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

*scopes*: Specifies the type to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Utilities.PrincipalType

*sources*: Specifies the source to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Utilities.PrincipalSource

*usersContainer*: Specifies the collection of users to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.UserCollection

*maxCount*: Specifies the maximum number of principals (1) to be returned in the list (1).

Type: CSOM Int32

If the value is equal to or less than 0, the server (2) MUST return an empty collection.

### 3.2.5.136.2.1.6 GetPeoplePickerURL

This method is a static CSOM method.

**Return Type:** CSOM String

Returns a server-relative URL to a Web page used to search for principals (1). [.<109>](#)

**Parameters:**

*web*: Specifies the site (2) to be used when searching for principals (1)

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

*fieldUser*: Specifies the field (2) to be used to set query parameters when searching for principals (1)

Type: Microsoft.SharePoint.Client.FieldUser

It MUST NOT be NULL.

### 3.2.5.136.2.1.7 ResolvePrincipalToEntityXml

This method is a static CSOM method.

**Return Type:** CSOM String

Specifies a string representation of principals (1) that match the specified search criteria. [.<110>](#)

**Parameters:**

*web*: Specifies the site (2) to be used when searching for principals (1)

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

*field*: Specifies the field (2) to be used when searching for principals (1)

Type: Microsoft.SharePoint.Client.Field

*input*: Specifies the value to be used when searching for principals (1)

Type: CSOM String

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

*entitySeparator*: Specifies a character used to delimit multiple search terms in the *input* string parameter

Type: **CSOM Char**

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024891	System.UnauthorizedAccessException	User does not have permission to <b>Browse UserInfo</b> list.

### 3.2.5.136.2.1.8 ResolvePrincipalInCurrentContext

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.Utilities.PrincipalInfo

Returns information about a principal (1) that matches the specified search criteria in the context of the current Web site (2).<111>

**Parameters:**

*input:* Specifies the value to be used when searching for a principal (1).

Type: CSOM String

If this is not the display name, e-mail address, or login name of a principal (1), the server (2) MUST return NULL.

Its length MUST be equal to or less than 255.

*scopes:* Specifies the type to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Utilities.PrincipalType

*sources:* Specifies the source to be used when searching for a principal (1).

Type: Microsoft.SharePoint.Client.Utilities.PrincipalSource

*inputIsEmailOnly:* Specifies whether only the e-mail address is used when searching for a principal (1).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024891	System.UnauthorizedAccessException	The current user has insufficient permissions..

### 3.2.5.136.2.1.9 MarkDiscussionAsFeatured

This method is a static CSOM method.

**Return Type:** None

Marks the specified discussion items as featured discussion items.<112>

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	The value passed for any of the required arguments is NULL.
-2147024891	System.UnauthorizedAccessException	The current user has insufficient permissions to mark the discussion items as featured discussion items.
-1	Microsoft.SharePoint.SPException	The security validation of the page failed.
-1	Microsoft.SharePoint.SPException	Any of the discussion items specified by the parameter <i>topicIDs</i> is invalid.

**Parameters:**

*listID*: Identifies the discussion board which contains the discussion items to be marked as featured discussion items.

Type: CSOM String

*topicIDs*: Identifies the discussion items to be marked as featured discussion items.

Type: CSOM String

The string MUST be formed by concatenating the identifiers for the discussion items using the comma character ",".

**3.2.5.136.2.1.10 UnmarkDiscussionAsFeatured**

This method is a static CSOM method.

**Return Type:** None

Unmarks the specified discussion items as featured discussion items. [<113>](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	The value passed for any of the required arguments is NULL.
-2147024891	System.UnauthorizedAccessException	The current user has insufficient permissions to unmark the discussion items as featured discussion items.
-1	Microsoft.SharePoint.SPException	The security validation of the page failed.
-1	Microsoft.SharePoint.SPException	Any of the discussion items specified by the parameter <i>topicIDs</i> is invalid.

**Parameters:**

*listID*: Identifies the discussion board which contains the discussion items to be unmarked as featured discussion items.

Type: CSOM String

*topicIDs*: Identifies the discussion items to be marked as featured discussion items.

Type: CSOM String

The string MUST be formed by concatenating the identifiers for the discussion items using the comma character ",".

### 3.2.5.136.2.1.11 SendEmail

This method is a static CSOM method.

**Return Type:** None

Sends the e-mail message to the specified address. <114>

**Parameters:**

*properties*: The set of properties that define the email to send.

Type: Microsoft.SharePoint.Client.Utilities.EmailProperties

### 3.2.5.136.2.1.12 LogCustomAppError

This method is a static CSOM method.

**Return Type:** None

This method facilitates logging for errors by **application** code. <115> These errors are of interest to administrators who monitor the applications.

**Parameters:**

*error*: Error string to log.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 1024.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	No more custom errors are allowed..
-2147024809	System.ArgumentException	The <b>error</b> parameter is <b>null</b> or exceeds 1024 characters.
-2147024891	System.UnauthorizedAccessException	The web in context is not an Web application (1) or application identity is not set.

### 3.2.5.136.2.1.13 GetAppLicenseInformation

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.SPAppLicenseCollection

Gets the collection of the **marketplace licenses** entitling the user to use the specified application within the **site subscription** including the site (2) to which the CSOM call is made. <116>

**Parameters:**

*productId*: **App product identifier** of the specified application.

Type: CSOM GUID

### 3.2.5.136.2.1.14 IsUserLicensedForEntityInContext

This method is a static CSOM method.

**Return Type:** CSOM Boolean

Specifies whether the currently logged in user has the appropriate license to access the specified entity. [<117>](#)

If **true**, the user has the proper license to access the specified entity; otherwise, **false**.

**Parameters:**

*licensableEntity*: The name of the entity to check the user's license for. The format of the string is an implementation detail of the protocol server.

Type: CSOM String

### 3.2.5.136.2.2 ObjectPath Methods

#### 3.2.5.136.2.2.1 CreateNewDiscussion

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.ListItem

Creates a new top-level discussion item for a discussion board and returns the corresponding list item.

**Parameters:**

*list*: Specifies the discussion board that contains the new discussion item.

Type: Microsoft.SharePoint.Client.List

*title*: Specifies the value of the **Title** field (2) of the new discussion item.

Type: CSOM String

#### 3.2.5.136.2.2.2 CreateNewDiscussionReply

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.ListItem

Creates a new discussion item representing a reply to an existing discussion item in a discussion board and returns the corresponding list item as specified by **ListItem** (section [3.2.5.87](#)).

**Parameters:**

*parent*: Specifies the parent discussion item of the new discussion item.

Type: Microsoft.SharePoint.Client.ListItem

### 3.2.5.136.2.2.3 CreateNewDiscussionItem

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.ListItem

Takes a **ListItem** (section [3.2.5.87](#)) that is created in a discussion board and sets fields (2) and other internal state in such a way that when the **Update** method is called on the list item, a discussion item that properly contains replies is created. [<118>](#)

**Parameters:**

*listId*: The list item identifier.

Type: CSOM GUID

*title*: The value to put in the Title field (2) of the item. This value is also used for the name of the created folder.

Type: CSOM String

### 3.2.5.136.2.2.4 CreateWikiPageInContextWeb

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.File

Creates a wiki page. [<119>](#)

**Parameters:**

*parameters*: The information used to create the wiki page.

Type: Microsoft.SharePoint.Client.Utilities.WikiPageCreationInformation

It MUST NOT be NULL.

### 3.2.5.137 Microsoft.SharePoint.Client.View

**TypeId:** {2399F45D-1784-4965-9A5F-A3415790A0D0}

**ShortName:** SP.View

Specifies a list view.

#### 3.2.5.137.1 Properties

##### 3.2.5.137.1.1 Scalar Properties

###### 3.2.5.137.1.1.1 Aggregations

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies fields (2) and functions that define totals shown in a list view.

It MUST be NULL or an XML fragment that conforms to the following XML schema: `<xs:sequence><xs:element name="FieldRef" type="FieldRefDefinitionAggregation" minOccurs="0" maxOccurs="unbounded" /></xs:sequence>` where `FieldRefDefinitionAggregation` is specified in [\[MS-WSSCAML\]](#) section 2.3.2.2.

### 3.2.5.137.1.1.2 AggregationsStatus

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies whether totals are shown in the list view. It MUST be NULL if *Aggregations* is NULL, otherwise it MUST be "On" or "Off."

It MUST be NULL If *Aggregations* is NULL; otherwise it MUST be "On" or "Off."

### 3.2.5.137.1.1.3 BaseViewId

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the **base view identifier** of the list view.

It MUST be an integer encoded as a string. Its value MUST be equal to or greater than 0. Its value MUST be equal to or less than 255.

### 3.2.5.137.1.1.4 ContentTypeId

**Type:** Microsoft.SharePoint.Client.ContentTypeId

**Accessibility:** Read/Write

Specifies the identifier of the content type with which the view is associated.

### 3.2.5.137.1.1.5 DefaultView

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list view is the **default list view**.

### 3.2.5.137.1.1.6 DefaultViewForContentType

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list view is the default list view for the content type specified by *ContentTypeId*.

### 3.2.5.137.1.1.7 EditorModified

**Type:** CSOM Boolean



**Accessibility:** Read/Write

Specifies whether the list view was modified in an editor.

### 3.2.5.137.1.1.8 Formats

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the column and row formatting for the list view.

It MUST be NULL or an XML fragment that conforms to ViewFormatDefinitions as specified in [\[MS-WSSCAML\]](#) section 2.3.2.21.

### 3.2.5.137.1.1.9 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list view is hidden.

### 3.2.5.137.1.1.10 HtmlSchemaXml

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the XML document that represents the list view.

It MUST NOT be NULL. It MUST be exactly one XML fragment conforming to ViewDefinitions as specified in [\[MS-WSSCAML\]](#) section 2.3.2.16.

### 3.2.5.137.1.1.11 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the view identifier of the list view.

It MUST NOT be an empty GUID.

### 3.2.5.137.1.1.12 ImageUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL of the image for the list view.

It MUST be a server-relative URL or an absolute URL.

### 3.2.5.137.1.1.13 IncludeRootFolder

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the current folder is displayed in the list view.

#### **3.2.5.137.1.1.14 Method**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the view method for the list view.

It MUST be NULL or an XML document where the **root element** is a valid Method XML fragment as specified in [\[MS-WSSCAP\]](#) section 2.2.5.2.

#### **3.2.5.137.1.1.15 MobileDefaultView**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list view is the **default mobile list view**.

#### **3.2.5.137.1.1.16 MobileView**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list view is a **mobile list view**.

#### **3.2.5.137.1.1.17 ModerationType**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the content approval type for the list view.

It MUST be one of the following: NULL, "", "Moderator", "Contributor", or "HideUnapproved".

#### **3.2.5.137.1.1.18 OrderedView**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether list items can be reordered in the list view.

#### **3.2.5.137.1.1.19 Paged**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the list view is a **paged view**.

### 3.2.5.137.1.1.20 PersonalView

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list view is a personal view. If the value is "false", the list (1) view is a public view.

### 3.2.5.137.1.1.21 ReadOnlyView

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list view is read-only.

### 3.2.5.137.1.1.22 RequiresClientIntegration

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list view requires client integration rights.

### 3.2.5.137.1.1.23 RowLimit

**Type:** CSOM UInt32

**Accessibility:** Read/Write

Specifies the maximum number of list items to display in a visual page of the list view.

Its value MUST be equal to or less than 2147483647.

### 3.2.5.137.1.1.24 Scope

**Type:** Microsoft.SharePoint.Client.ViewScope

**Accessibility:** Read/Write

Specifies the scope for the list view.

### 3.2.5.137.1.1.25 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of the **list view page**.

It MUST NOT be NULL. It MUST NOT be empty. It MUST be a URL of server-relative form.

### 3.2.5.137.1.1.26 StyleId

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the identifier of the **view style** for the list view.

It MUST be NULL or conform to ViewStyleReference as specified in [\[MS-WSSCAML\]](#) section 2.3.2.20.

### 3.2.5.137.1.1.27 Threaded

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the list view is a threaded view.

### 3.2.5.137.1.1.28 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name of the list view.

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

### 3.2.5.137.1.1.29 Toolbar

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **toolbar** for the list view.

It MUST be NULL or conform to the following XML

```
schema:<xs:complexType><xs:sequence><xs:any minOccurs="0" maxOccurs="unbounded"
namespace="##any" processContents="skip"/></xs:sequence><xs:anyAttribute
processContents="skip"/></xs:complexType>
```

### 3.2.5.137.1.1.30 ToolbarTemplateName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the template for the toolbar that is used in the list view, specified in [\[MS-WSSCAML\]](#) section 2.3.2.17.2.

### 3.2.5.137.1.1.31 ViewData

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a reference (3) to the field (2) that is used to render the Calendar View or Gantt view. If the view is a Calendar View or Gantt View, this section MUST be specified. For other view types, it MUST be ignored.

It MUST be NULL or an XML fragment that conforms to the following XML schema:  
`<xs:sequence><xs:element name="FieldRef" type="FieldRefDefinitionViewData" minOccurs="3" maxOccurs="5"/></xs:sequence>` where **FieldRefDefinitionViewData** is specified in [\[MS-WSSCAML\]](#) section 2.3.2.18.

### 3.2.5.137.1.1.32 ViewJoins

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the joins that are used in the list view.

It MUST be NULL or an XML fragment that conforms to **ListJoinsDefinition** as specified in [\[MS-WSSCAML\]](#) section 2.2.2.21.

### 3.2.5.137.1.1.33 ViewProjectedFields

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the dependent lookup field to be used by the list view.

It MUST be NULL or an XML fragment that conforms to **ProjectedFieldsDefinition** as specified in [\[MS-WSSCAML\]](#) section 2.2.2.19.

### 3.2.5.137.1.1.34 ViewQuery

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the query that is used by the list view.

It MUST be NULL or a valid XML fragment that conforms to **CamlQueryRoot** as specified in [\[MS-WSSCAML\]](#) section 2.2.2.1.

### 3.2.5.137.1.1.35 ViewType

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the type of the list view.

It MUST be one of the following: "HTML", "GRID", "CALENDAR", "RECURRENCE", "CHART", or "GANTT".

### 3.2.5.137.1.1.36 ListViewXml

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **View** (section [3.2.5.137](#)) XML that conforms to the **ViewDefinition** type as defined in [\[MS-WSSCAML\]](#) section 2.3.2.17. <120>

### 3.2.5.137.1.2 ObjectPath Properties

#### 3.2.5.137.1.2.1 ViewFields

**Type:** Microsoft.SharePoint.Client.ViewFieldCollection

**Accessibility:** Read Only

Specifies the collection of fields (2) in the list view.

It MUST NOT be NULL.

#### 3.2.5.137.2 Methods

##### 3.2.5.137.2.1 Scalar Methods

###### 3.2.5.137.2.1.1 DeleteObject

**Return Type:** None

Deletes the list view.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-2130575320	Microsoft.SharePoint.SPException	List view does not exist.

###### 3.2.5.137.2.1.2 RenderAsHtml

**Return Type:** CSOM String

Returns the list view as HTML. It MUST be HTML.

**Parameters:** None

###### 3.2.5.137.2.1.3 Update

**Return Type:** None

Commits changed properties of the list view.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	List view does not exist.

##### 3.2.5.137.2.2 ObjectPath Methods

None.

### 3.2.5.138 Microsoft.SharePoint.Client.ViewCollection

**TypeId:** {03C5D7A9-9541-4482-9919-CA0CCCF565A0}

**ShortName:** SP.ViewCollection

Specifies a collection of list views.

#### 3.2.5.138.1 Properties

##### 3.2.5.138.1.1 Scalar Properties

None.

##### 3.2.5.138.1.2 ObjectPath Properties

None.

#### 3.2.5.138.2 Methods

##### 3.2.5.138.2.1 Scalar Methods

None.

##### 3.2.5.138.2.2 ObjectPath Methods

###### 3.2.5.138.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.View

Adds a new list view to the collection.

**Parameters:**

*parameters:* Specifies the new list view.

Type: Microsoft.SharePoint.Client.ViewCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Type of the new list view is not allowed for the list (1).

###### 3.2.5.138.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.View

Returns the view with the specified view identifier.

**Parameters:**

*guidId:* The view identifier of the view to return.

Type: CSOM GUID

### 3.2.5.138.2.2.3 GetByTitle

**Return Type:** Microsoft.SharePoint.Client.View

Returns the list view with the specified title. If there is more than one list view with the specified title, the server (2) MUST return one list view as determined by the server (2).

**Parameters:**

*strTitle:* The title of the view to return.

Type: CSOM String

It MUST NOT be NULL.

### 3.2.5.139 Microsoft.SharePoint.Client.ViewCreationInformation

**TypeId:** {A3547807-7266-42F3-B055-AFA6E840E458}

**ShortName:** SP.ViewCreationInformation

Specifies the properties used to create a new list view.

#### 3.2.5.139.1 Properties

##### 3.2.5.139.1.1 Scalar Properties

###### 3.2.5.139.1.1.1 Paged

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the new list view is a paged view.

###### 3.2.5.139.1.1.2 PersonalView

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the new list view is a personal view. If the value is "false", the new list view is a public view.

###### 3.2.5.139.1.1.3 Query

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the query for the new list view.

It MUST be NULL or a valid XML fragment that conforms to CamlQueryRoot as specified in [\[MS-WSSCAML\]](#) section 2.2.2.1.



#### 3.2.5.139.1.1.4 RowLimit

**Type:** CSOM UInt32

**Accessibility:** Read/Write

Specifies the maximum number of list items that the new list view displays on a visual page of the list view.

Its value MUST be equal to or less than 2147483647.

#### 3.2.5.139.1.1.5 SetAsDefaultView

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the new list view is the default list view.

#### 3.2.5.139.1.1.6 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name of the new list view.

Its length MUST be equal to or less than 255.

#### 3.2.5.139.1.1.7 ViewFields

**Type:** CSOM Array

**Accessibility:** Read/Write

Specifies the collection of field internal names for the list (1) fields (2) in the new list view.

#### 3.2.5.139.1.1.8 ViewTypeKind

**Type:** Microsoft.SharePoint.Client.ViewType

**Accessibility:** Read/Write

Specifies the type of the new list view.

#### 3.2.5.139.1.2 ObjectPath Properties

None.

#### 3.2.5.140 Microsoft.SharePoint.Client.ViewFieldCollection

**TypeId:** {AF975F76-8A94-4E6D-8325-BD1E20B7C301}

**ShortName:** SP.ViewFieldCollection

Specifies the collection of fields (2) in a list view.

### 3.2.5.140.1 Properties

#### 3.2.5.140.1.1 Scalar Properties

##### 3.2.5.140.1.1.1 SchemaXml

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the XML schema that represents the collection.

It MUST NOT be NULL. It MUST be an XML fragment that conforms to the following XML schema: `<xs:sequence><xs:element name="FieldRef" type="FieldRefDefinitionView" minOccurs="0" maxOccurs="unbounded" /></xs:sequence>` **FieldRefDefinitionView** is specified in [\[MS-WSSCAML\]](#) section 2.3.2.19.

##### 3.2.5.140.1.2 ObjectPath Properties

None.

#### 3.2.5.140.2 Methods

##### 3.2.5.140.2.1 Scalar Methods

###### 3.2.5.140.2.1.1 Add

**Return Type:** None

Adds the field (2) with the specified field internal name or display name to the collection.

**Parameters:**

*strField*: Specifies the field internal name or the display name.

Type: CSOM String

It MUST NOT be NULL.

###### 3.2.5.140.2.1.2 MoveFieldTo

**Return Type:** None

Moves the field (2) with the specified field internal name to the specified position in the collection.

**Parameters:**

*field*: Specifies the field internal name.

Type: CSOM String

It MUST NOT be NULL.

*index*: Specifies the position for the field (2). The first position is 0.

Type: CSOM Int32

Its value MUST be equal to or greater than 0.

**Exceptions:**

Error Code	Error Type Name	Condition
-2146232832	Microsoft.SharePoint.SPException	Field (2) does not exist in the collection.

**3.2.5.140.2.1.3 Remove**

**Return Type:** None

Removes the field (2) with the specified field internal name from the collection.

**Parameters:**

*strField*: Specifies the field internal name.

Type: CSOM String

It MUST NOT be NULL.

**3.2.5.140.2.1.4 RemoveAll**

**Return Type:** None

Removes all the fields (2) from the collection.

**Parameters:** None

**3.2.5.140.2.1.5 AddViewField**

**Return Type:** None

Adds the field (2) with the specified field internal name or display name to the collection. [<121>](#)

**Parameters:**

*strField*: Specifies the field internal name or display name

Type: CSOM String

It MUST NOT be NULL.

**3.2.5.140.2.1.6 MoveViewFieldTo**

**Return Type:** None

Moves the field (2) with the specified field internal name to the specified position in the collection. [<122>](#)

**Parameters:**

*field*: Specifies the field internal name.

Type: CSOM String

It MUST NOT be NULL.

*index*: Specifies the new position for the field (2). The first position is 0.

Type: CSOM Int32

Its value MUST be equal to or greater than 0.

### 3.2.5.140.2.1.7 RemoveAllViewFields

**Return Type:** None

Removes all the fields (2) from the collection. [<123>](#)

**Parameters:** None

### 3.2.5.140.2.1.8 RemoveViewField

**Return Type:** None

Removes the field (2) with the specified field internal name or display name from the collection. [<124>](#)

**Parameters:**

*strField*: Specifies the field internal name or display name.

Type: CSOM String

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-2146232832	Microsoft.SharePoint.SPException	Field (2) does not exist in the collection.

### 3.2.5.140.2.2 ObjectPath Methods

None.

### 3.2.5.141 Microsoft.SharePoint.Client.ViewScope

**ShortName:** SP.ViewScope

**Flag:** false

Specifies the scope for returning list items and list folders in a list view.

#### 3.2.5.141.1 Field Values

##### 3.2.5.141.1.1 DefaultValue

**Value:** 0

Specifies that all list items and all list folders in the current list folder are returned in the list view.

### **3.2.5.141.1.2 Recursive**

**Value:** 1

Specifies that all list items in the list (1) are returned in the list view.

### **3.2.5.141.1.3 RecursiveAll**

**Value:** 2

Specifies that all list items and all list folders in the list (1) are returned in the list view.

### **3.2.5.141.1.4 FilesOnly**

**Value:** 3

Specifies that all list items in the current list folder are returned in the list view.

## **3.2.5.142 Microsoft.SharePoint.Client.ViewType**

**ShortName:** SP.ViewType

**Flag:** false

Specifies the type of the list view.

### **3.2.5.142.1 Field Values**

#### **3.2.5.142.1.1 None**

**Value:** 0

The type of the list view is not specified.

#### **3.2.5.142.1.2 Html**

**Value:** 1

Specifies an HTML list view type.

#### **3.2.5.142.1.3 Grid**

**Value:** 2048

Specifies a datasheet list view type.

#### **3.2.5.142.1.4 Calendar**

**Value:** 524288

Specifies a calendar list view type.

#### **3.2.5.142.1.5 Recurrence**

**Value:** 8193

Specifies a list view type that displays **recurring events**.

### 3.2.5.142.1.6 Chart

**Value:** 131072

Specifies a chart list view type.

### 3.2.5.142.1.7 Gantt

**Value:** 67108864

Specifies a Gantt chart list view type.

### 3.2.5.143 Microsoft.SharePoint.Client.Web

**TypeId:** {A489ADD2-5D3A-4DE8-9445-49259462DCEB}

**ShortName:** SP.Web

Specifies a site (2).

The AllowDesignerForCurrentUser, EffectiveBasePermissions, HasUniqueRoleAssignments and ParentWeb properties are not included in the default scalar property set for this type.

#### 3.2.5.143.1 Properties

##### 3.2.5.143.1.1 Scalar Properties

###### 3.2.5.143.1.1.1 AllowDesignerForCurrentUser

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the current user is allowed to use a designer application to customize this site (2).

###### 3.2.5.143.1.1.2 AllowMasterPageEditingForCurrentUser

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the current user is allowed to edit the master page.

###### 3.2.5.143.1.1.3 AllowRevertFromTemplateForCurrentUser

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the current user is allowed to revert the site (2) to a default site template.

###### 3.2.5.143.1.1.4 AllowRssFeeds

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the site (2) allows RSS feeds.

#### **3.2.5.143.1.1.5 Created**

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies when the site (2) was created.

It MUST NOT be NULL.

#### **3.2.5.143.1.1.6 Description**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description for the site (2).

#### **3.2.5.143.1.1.7 EffectiveBasePermissions**

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the effective permissions that are assigned to the current user.

It MUST NOT be NULL.

#### **3.2.5.143.1.1.8 HasUniqueRoleAssignments**

**Type:** CSOM Boolean

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.SecurableObject.HasUniqueRoleAssignments (section 3.2.5.100.1.1.1).

#### **3.2.5.143.1.1.9 Id**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the site identifier for the site (2).

#### **3.2.5.143.1.1.10 Language**

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies the language code identifier (LCID) for the language that is used on the site (2).

### 3.2.5.143.1.1.11 LastItemModifiedDate

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies when an item was last modified in the site (2).

### 3.2.5.143.1.1.12 QuickLaunchEnabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the Quick Launch area is enabled on the site (2).

### 3.2.5.143.1.1.13 RecycleBinEnabled

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the Recycle Bin is enabled.

### 3.2.5.143.1.1.14 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the server-relative URL of the site (2).

It MUST NOT be NULL. It MUST NOT contain the following illegal characters:

[!#\$%'+:;<>?\\{|}~]|(//)|(\.\\.)|(/\_|)(/wpresources\$)|(wpresources/)It MUST NOT contain any of the reserved Uniform Resource Locators (URLs). Reserved URLs are implementation-specific and not defined by this protocol.

### 3.2.5.143.1.1.15 ShowUrlStructureForCurrentUser

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the current user is able to view the file system structure of this site (2).

### 3.2.5.143.1.1.16 SyndicationEnabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the [\[RSS2.0\]](#) feeds are enabled on the site (2).

### 3.2.5.143.1.1.17 Title

**Type:** CSOM String



**Accessibility:** Read/Write

Specifies the title for the site (2).

Its length MUST be equal to or less than 255.

### 3.2.5.143.1.1.18 TreeViewEnabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the tree view is enabled on the site (2).

### 3.2.5.143.1.1.19 UIVersion

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies which version of the user interface (UI) the site (2) is using. This value MUST be a defined **SPValidUIVersion** value, as specified in the following table.

SPValidUIVersion	Description
3	Specifies that the site (2) is using the SharePoint 2007 user interface (UI).
4	Specifies that the site (2) is using the SharePoint 2010 user interface (UI).

### 3.2.5.143.1.1.20 UIVersionConfigurationEnabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the settings UI for visual upgrade is shown or hidden.

### 3.2.5.143.1.1.21 EnableMinimalDownload

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the site will use the minimal download strategy by default. [<125>](#)

The minimal download strategy will use a single .aspx file (start.aspx) for your pages, with the actual URL encoded in the text following the hashmark ('#'). When navigating from page to page, only the changes between two compatible pages will be downloaded. Fewer bytes will be downloaded and the page will appear more quickly.

### 3.2.5.143.1.1.22 ParentWeb

**Type:** Microsoft.SharePoint.Client.WebInformation

**Accessibility:** Read Only

Specifies the parent site of the site (2). [<126>](#)

### 3.2.5.143.1.1.23 Url

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL of the site (2).<[127](#)>

### 3.2.5.143.1.1.24 CustomMasterUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL for a custom master page to apply to the Web site (2).<[128](#)>

### 3.2.5.143.1.1.25 MasterUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL for a master page to apply to the Web site (2).<[129](#)>

### 3.2.5.143.1.1.26 DocumentLibraryCalloutWACPreviewersDisabled

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether web-based previews of documents in a document library callout user interface is disabled on the site (2).<[130](#)>

If **true**, web-based previews of documents will not be displayed in the callout user interface in document libraries. If **false**, web-based previews of documents will be displayed when they are supported.

## 3.2.5.143.1.2 ObjectPath Properties

### 3.2.5.143.1.2.1 AllProperties

**Type:** Microsoft.SharePoint.Client.PropertyValues

**Accessibility:** Read Only

Specifies the collection of name/value pairs of all the CSOM expando fields for the site (2).

It MUST NOT be NULL.

### 3.2.5.143.1.2.2 AssociatedMemberGroup

**Type:** Microsoft.SharePoint.Client.Group

**Accessibility:** Read/Write

Specifies the default site (2) group (2) that was created with contribute permissions at the time the site (2) was created.

### 3.2.5.143.1.2.3 AssociatedOwnerGroup

**Type:** Microsoft.SharePoint.Client.Group

**Accessibility:** Read/Write

Specifies the default site (2) group (2) that was created with full control permissions at the time the site (2) was created.

### 3.2.5.143.1.2.4 AssociatedVisitorGroup

**Type:** Microsoft.SharePoint.Client.Group

**Accessibility:** Read/Write

Specifies the default site (2) group (2) that was created with read permissions at the time the site (2) was created.

### 3.2.5.143.1.2.5 AvailableContentTypes

**Type:** Microsoft.SharePoint.Client.ContentTypeCollection

**Accessibility:** Read Only

Specifies the collection of all **site content types** that apply to the current scope, including those of the current site (2), as well as any parent sites.

It MUST NOT be NULL.

### 3.2.5.143.1.2.6 AvailableFields

**Type:** Microsoft.SharePoint.Client.FieldCollection

**Accessibility:** Read Only

Specifies the collection of all fields (2) available for the current scope, including those of the current site (2), as well as any parent sites.

It MUST NOT be NULL.

### 3.2.5.143.1.2.7 ContentTypes

**Type:** Microsoft.SharePoint.Client.ContentTypeCollection

**Accessibility:** Read Only

Specifies the collection of content types for the site (2).

It MUST NOT be NULL.

### 3.2.5.143.1.2.8 CurrentUser

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the current user of the site (2).

It MUST NOT be NULL.

### **3.2.5.143.1.2.9 Features**

**Type:** Microsoft.SharePoint.Client.FeatureCollection

**Accessibility:** Read Only

Specifies the collection of features that are currently activated in the site (2).

It MUST NOT be NULL.

### **3.2.5.143.1.2.10 Fields**

**Type:** Microsoft.SharePoint.Client.FieldCollection

**Accessibility:** Read Only

Specifies the collection of all the fields (2) in the site (2).

It MUST NOT be NULL.

### **3.2.5.143.1.2.11 Folders**

**Type:** Microsoft.SharePoint.Client.FolderCollection

**Accessibility:** Read Only

Specifies the collection of all first-level folders in the site (2).

It MUST NOT be NULL.

### **3.2.5.143.1.2.12 Lists**

**Type:** Microsoft.SharePoint.Client.ListCollection

**Accessibility:** Read Only

Specifies the collection of lists (1) that are contained in the site (2) available to the current user based on the current user's permissions.

### **3.2.5.143.1.2.13 ListTemplates**

**Type:** Microsoft.SharePoint.Client.ListTemplateCollection

**Accessibility:** Read Only

Specifies the collection of list templates available for creating lists (1) on the site (2).

### **3.2.5.143.1.2.14 Navigation**

**Type:** Microsoft.SharePoint.Client.Navigation

**Accessibility:** Read Only

Specifies the navigation structure on the site (2), including the Quick Launch area and the link bar.

### 3.2.5.143.1.2.15 RoleAssignments

**Type:** Microsoft.SharePoint.Client.RoleAssignmentCollection

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.SecurableObject.RoleAssignments (section 3.2.5.100.1.2.1).

### 3.2.5.143.1.2.16 RoleDefinitions

**Type:** Microsoft.SharePoint.Client.RoleDefinitionCollection

**Accessibility:** Read Only

Specifies the collection of role definitions for the site (2).

### 3.2.5.143.1.2.17 RootFolder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Specifies the root folder for the site (2).

### 3.2.5.143.1.2.18 SiteGroups

**Type:** Microsoft.SharePoint.Client.GroupCollection

**Accessibility:** Read Only

Specifies the collection of the **site collection groups** for the site collection that contains the site (2).

### 3.2.5.143.1.2.19 SiteUserInfoList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read Only

Specifies the user information list for the site collection that contains the site (2).

### 3.2.5.143.1.2.20 UserCustomActions

**Type:** Microsoft.SharePoint.Client.UserCustomActionCollection

**Accessibility:** Read Only

Specifies the collection of user custom actions for the site (2).

### 3.2.5.143.1.2.21 Webs

**Type:** Microsoft.SharePoint.Client.WebCollection

**Accessibility:** Read Only

Specifies the collection of all child sites (2) for the site (2).

### 3.2.5.143.1.2.22 WorkflowAssociations

**Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCollection

**Accessibility:** Read Only

Specifies the collection of all workflow associations for the site (2).

### 3.2.5.143.1.2.23 WorkflowTemplates

**Type:** Microsoft.SharePoint.Client.Workflow.WorkflowTemplateCollection

**Accessibility:** Read Only

Specifies the collection of **workflow templates** associated with the site (2).

### 3.2.5.143.1.2.24 FirstUniqueAncestorSecurableObject

**Type:** Microsoft.SharePoint.Client.SecurableObject

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.SecurableObject.FirstUniqueAncestorSecurableObject**, as specified in section [3.2.5.118.1.2.2.<131>](#)

### 3.2.5.143.1.2.25 RecycleBin

**Type:** Microsoft.SharePoint.Client.RecycleBinItemCollection

**Accessibility:** Read Only

Specifies the collection of Recycle Bin items of the Recycle Bin of the site (2).[<132>](#)

### 3.2.5.143.1.2.26 WebInfos

**Type:** Microsoft.SharePoint.Client.WebInformationCollection

**Accessibility:** Read Only

Specifies the collection of all child sites (2) for the site (2).[<133>](#)

### 3.2.5.143.1.2.27 ThemeInfo

**Type:** Microsoft.SharePoint.Client.ThemeInfo

**Accessibility:** Read Only

Specifies the site theme associated with the site (2).[<134>](#)

### 3.2.5.143.1.2.28 EventReceivers

**Type:** Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**Accessibility:** Read Only

Specifies the collection of event receiver definitions that are currently available on the Web site (2).[<135>](#)

### 3.2.5.143.1.2.29 SiteUsers

**Type:** Microsoft.SharePoint.Client.UserCollection

**Accessibility:** Read Only

Specifies the collection of users in the site collection that contains the site (2).<[136](#)>

### 3.2.5.143.1.2.30 RegionalSettings

**Type:** Microsoft.SharePoint.Client.RegionalSettings

**Accessibility:** Read Only

Specifies the locale settings of the site (2).<[137](#)>

### 3.2.5.143.1.2.31 PushNotificationSubscribers

**Type:** Microsoft.SharePoint.Client.PushNotificationSubscriberCollection

**Accessibility:** Read Only

Specifies the collection of push notification subscribers for the site (2).<[138](#)>

It MUST NOT be NULL.

## 3.2.5.143.2 Methods

### 3.2.5.143.2.1 Scalar Methods

#### 3.2.5.143.2.1.1 ApplyWebTemplate

**Return Type:** None

Applies the specified site definition or site template to the site (2) that has no template applied to it.

**Parameters:**

*strWebTemplate:* A string that contains the name of the site definition or the file name of the site template.

Type: CSOM String

#### 3.2.5.143.2.1.2 BreakRoleInheritance

**Return Type:** None

See Microsoft.SharePoint.Client.SecurableObject.BreakRoleInheritance (section [3.2.5.118.2.1.1](#)).

**Parameters:**

*copyRoleAssignments:* Specifies whether to copy the role assignments from the parent site. If the value is "false", the collection of role assignments MUST contain only 1 role assignment containing the current user.

Type: CSOM Boolean

*clearSubscopes*: Specifies whether the role assignments for all sites (2) that inherit from this site (2) MUST be cleared. If the value is "true", all child sites (2) with the same security scope MUST also be cleared.

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	There are uncommitted changes on the site (2).

### 3.2.5.143.2.1.3 DeleteObject

**Return Type:** None

Deletes this site (2).

**Parameters:** None

### 3.2.5.143.2.1.4 DoesUserHavePermissions

**Return Type:** CSOM Boolean

Returns whether the current user has the given set of permissions.

**Parameters:**

*permissionMask*: Specifies the set of permissions to verify.

Type: Microsoft.SharePoint.Client.BasePermissions

It MUST NOT be NULL.

### 3.2.5.143.2.1.5 GetWebUrlFromPageUrl

This method is a static CSOM method.

**Return Type:** CSOM String

Returns the URL of the root folder for the site (2) containing the specified URL. This is a static method.

**Parameters:**

*pageFullUrl*: Specifies the URL from which to return the site (2) URL.

Type: CSOM String

It MUST be a URL of absolute form. It MUST start with "http://" or "https://"

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	A site (2) cannot be found at the given URL.



### 3.2.5.143.2.1.6 MapToIcon

**Return Type:** CSOM String

Returns the name of the image file for the **icon** that is used to represent the specified file.

**Parameters:**

*fileName*: Specifies the name of the file that is used to determine the image file name.

Type: CSOM String

If a NULL or empty string is passed into this parameter, the protocol server (2) MUST return an empty string.

*progId*: Specifies the ProgID of the application that was used to create the file.

Type: CSOM String

If the value of this parameter is NULL or an empty string, the protocol server (2) MUST return the name of the image file based on the specified *fileName*. The server selects the image file based on the filename in an implementation-specific manner.

*size*: Specifies the icon size.

Type: Microsoft.SharePoint.Client.Utilities.IconSize

### 3.2.5.143.2.1.7 ResetRoleInheritance

**Return Type:** None

See Microsoft.SharePoint.Client.SecurableObject.ResetRoleInheritance as specified in section [3.2.5.118.2.1.2](#).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	There are uncommitted changes on the site (2).

### 3.2.5.143.2.1.8 Update

**Return Type:** None

Commits changes made to properties of this site (2).

**Parameters:** None

### 3.2.5.143.2.1.9 ProcessExternalNotification

**Return Type:** CSOM String

Processes notifications from external system. [<139>](#) Returns status of processing. Possible values are "Success" or "SubscriptionNotRequired". Result "Success" indicates successful processing. Result

"SubscriptionNotRequired" indicates that the subscription is no longer required and external system can safely delete the subscription.

**Parameters:**

*stream*: Notification message from the external system.

Type: CSOM Stream

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024891	System.UnauthorizedAccessException	Access is denied. User does not have permission to send notifications.

### 3.2.5.143.2.1.10 GetContextWebInformation

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.ContextWebInformation

Returns an object (1) that specifies metadata about the site (2).[<140>](#)

**Parameters:** None

### 3.2.5.143.2.1.11 ExecuteRemoteLOB

**Return Type:** CSOM Stream

This method is used to enable message exchange between a server hosted on the internet and a server hosted on the inside of an intranet, where the protocol server acts as a relay.[<141>](#) The protocol server relays the call to the intranet server specified in the message header. The protocol does not prescribe how to handle other message headers, if any. The protocol does not prescribe any format for inputStream. The protocol does not prescribe if the inputStream is modified before sending to the server inside the intranet or how the return value from the intranet server is handled.

**Parameters:**

*inputStream*: This parameter specifies inputStream. The protocol does not prescribe any format for inputStream.

Type: CSOM Stream

### 3.2.5.143.2.1.12 DoesPushNotificationSubscriberExist

**Return Type:** CSOM Boolean

Specifies whether the push notification subscriber exist for the current user with the given device **app instance** identifier.[<142>](#)

**Parameters:**

*deviceAppInstanceId*: Device application instance identifier.

Type: CSOM GUID

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147467261	System.ArgumentNullException	<b>Null</b> value passed for any of the required arguments.
- 2147024891	System.UnauthorizedAccessException	Caller does not have permissions for the site (2).

**3.2.5.143.2.1.13 UnregisterPushNotificationSubscriber****Return Type:** None

Unregisters the push notification subscriber from the site (2).&lt;143&gt;

**Parameters:***deviceAppInstanceId*: Device app instance Identifier.

Type: CSOM GUID

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147467261	System.ArgumentNullException	<b>Null</b> value passed for any of the required arguments.
- 2147024891	System.UnauthorizedAccessException	Caller does not have permissions for the site (2).

**3.2.5.143.2.2 ObjectPath Methods****3.2.5.143.2.2.1 EnsureUser****Return Type:** Microsoft.SharePoint.Client.User

If the specified login name belongs to a valid user of the site (2), returns the User object (1) corresponding to that user.

If the specified login name belongs to a valid user outside of the site, adds the user to the site (2) and returns the User object (1) corresponding to that user.

**Parameters:***logonName*: Specifies a string that contains the login name.

Type: CSOM String

**3.2.5.143.2.2.2 GetAvailableWebTemplates****Return Type:** Microsoft.SharePoint.Client.WebTemplateCollection

Returns a collection of site templates available for the site (2).

**Parameters:**

*lcid*: Specifies the LCID of the site templates to be retrieved.

Type: CSOM UInt32

If the specified LCID is not a valid LCID as specified in [\[MS-LCID\]](#), the server (2) MUST return an empty collection.

*doIncludeCrossLanguage*: Specifies whether to include language-neutral site templates.

Type: CSOM Boolean

### 3.2.5.143.2.2.3 GetCatalog

**Return Type:** Microsoft.SharePoint.Client.List

Returns the list template gallery (1), site template gallery (1), or Web Part gallery (1) for the site (2).

**Parameters:**

*typeCatalog*: Specifies the type for the gallery (1)

Type: CSOM Int32

The server (2) MUST return NULL if there is no gallery (1) with the specified type or *typeCatalog* is not a valid **ListTemplateType** enumeration value as specified in [\[MS-WSSTS\]](#) section 2.7.

### 3.2.5.143.2.2.4 GetChanges

**Return Type:** Microsoft.SharePoint.Client.ChangeCollection

Returns the collection of all changes from the change log that have occurred within the scope of the site (2), based on the specified query.

**Parameters:**

*query*: Specifies which changes to return.

Type: Microsoft.SharePoint.Client.ChangeQuery

It MUST NOT be NULL.

### 3.2.5.143.2.2.5 GetFileByServerRelativeUrl

**Return Type:** Microsoft.SharePoint.Client.File

Returns the file located at the specified server-relative URL.

**Parameters:**

*serverRelativeUrl*: Specifies the server-relative URL for the file.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.143.2.2.6 GetFolderByServerRelativeUrl

**Return Type:** Microsoft.SharePoint.Client.Folder

Returns the folder that is located at the specified URL. The user MUST have permission to browse directories of the site (2) specified by the given URL.

**Parameters:**

*serverRelativeUrl*: Specifies the server-relative URL for the folder.

Type: CSOM String

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024894	System.IO.FileNotFoundException	<i>serverRelativeUrl</i> doesn't correspond to a folder

### 3.2.5.143.2.2.7 GetSubwebsForCurrentUser

**Return Type:** Microsoft.SharePoint.Client.WebCollection

Returns the collection of child sites (2) of the current site (2) based on the specified query.

**Parameters:**

*query*: Specifies which child sites (2) to return.

Type: Microsoft.SharePoint.Client.SubwebQuery

If the query is not valid as described in section [3.2.5.120](#), the server (2) MUST return an empty collection.

### 3.2.5.143.2.2.8 GetEntity

**Return Type:** Microsoft.BusinessData.MetadataModel.Entity

Specifies the external content type with the specified namespace and name in the context of the current site (2). [<144>](#) This method is used as the entry point to create, read, update and delete (CRUD) operations against an **Entity** (section [3.2.5.178](#)).

**Parameters:**

*namespace*: The namespace of the external content type

Type: CSOM String

*name*:

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	Entity with the given parameters cannot be found
-2147467261	System.ArgumentNullException	At least one of the parameters is null

### 3.2.5.143.2.2.9 GetUserById

**Return Type:** Microsoft.SharePoint.Client.User

Returns the user corresponding to the specified member identifier for the current site (2).<145>

**Parameters:**

*userId*: Specifies the member identifier.

Type: CSOM Int32

**Exceptions:**

Error Code	Error Type Name	Condition
-2146232832	Microsoft.SharePoint.SPException	User cannot be found.
-2147024891	System.UnauthorizedAccessException	Access is denied.

### 3.2.5.143.2.2.10 GetCustomListTemplates

**Return Type:** Microsoft.SharePoint.Client.ListTemplateCollection

Returns the collection of custom list templates for a given site (2).<146>

**Parameters:** None

### 3.2.5.143.2.2.11 GetSubwebsFilteredForCurrentUser

**Return Type:** Microsoft.SharePoint.Client.WebInformationCollection

Returns a collection of objects that contain metadata about subsites of the current site (2) in which the current user is a member.<147>

**Parameters:**

*nWebTemplateFilter*: Specifies the site definition.

Type: CSOM Int32

*nConfigurationFilter*: A 16-bit integer that specifies the identifier of a configuration.

Type: **CSOM Int16**

### 3.2.5.143.2.2.12 GetAppBdcCatalog

**Return Type:** Microsoft.BusinessData.MetadataModel.AppBdcCatalog

Returns the **Business Data Connectivity (BDC) MetadataCatalog** for an application that gives access to the external content types defined in the BDC metadata model packaged by the application. <148> This method should be called on the **Web** (section 3.2.5.143) object that represents the site for the application and it returns the BDC MetadataCatalog deployed on the site.

**Parameters:** None

### 3.2.5.143.2.2.13 GetAppBdcCatalogForAppInstance

**Return Type:** Microsoft.BusinessData.MetadataModel.AppBdcCatalog

Returns the Business Data Connectivity (BDC) MetadataCatalog for an application that gives access to the external content types defined in the BDC metadata model packaged by the application. <149> This method should be called on the **Web** (section 3.2.5.143) object where the application is installed and it returns the BDC MetadataCatalog deployed on the site for the application.

**Parameters:**

*appInstanceId*: The identifier of the app instance.

Type: CSOM GUID

It MUST NOT be an empty GUID.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Application with given identifier is not installed on the web or the application does not have a Web application (1).

### 3.2.5.143.2.2.14 GetAppInstanceById

**Return Type:** Microsoft.SharePoint.Client.AppInstance

Returns an application instance installed on this site (2). <150>

**Parameters:**

*appInstanceId*: Application instance identifier.

Type: CSOM GUID

### 3.2.5.143.2.2.15 LoadAndInstallApp

**Return Type:** Microsoft.SharePoint.Client.AppInstance

Uploads and installs an **app package** to this site (2). <151> This site (2) MUST be enabled for remote development. This method returns a reference to the app instance.

**Parameters:**

*appPackageStream*: The stream of the app package.

Type: CSOM Stream

**3.2.5.143.2.2.16 GetPushNotificationSubscriber**

**Return Type:** Microsoft.SharePoint.Client.PushNotificationSubscriber

Specifies the push notification subscriber over the site for the specified device app instance identifier. [<152>](#)

**Parameters:**

*deviceAppInstanceId*: Device application instance identifier.

Type: CSOM GUID

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	Null value passed for any of the required arguments.
-2147024891	System.UnauthorizedAccessException	Caller does not have permissions for the site (2).

**3.2.5.143.2.2.17 GetPushNotificationSubscribersByArgs**

**Return Type:** Microsoft.SharePoint.Client.PushNotificationSubscriberCollection

Queries for the push notification subscribers for the site (2) with the specified set of custom arguments. [<153>](#)

The passed value is compared against the subscribers' custom arguments in the store and exact matches are returned as a collection. **Null** or empty custom arguments return subscribers without any filtering. If no match is found, an empty collection is returned.

**Parameters:**

*customArgs*: Custom arguments.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024891	System.UnauthorizedAccessException	Caller does not have permissions for the site (2).

**3.2.5.143.2.2.18 GetPushNotificationSubscribersByUser**

**Return Type:** Microsoft.SharePoint.Client.PushNotificationSubscriberCollection

Queries for the push notification subscribers for the site (2) for the specified user. [<154>](#)



**Parameters:**

*userName*: Login name of the user.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147467261	System.ArgumentNullException	<b>Null</b> value passed for any of the required arguments.
- 2147024891	System.UnauthorizedAccessException	Caller does not have permissions for the site (2).

**3.2.5.143.2.2.19 RegisterPushNotificationSubscriber**

**Return Type:** Microsoft.SharePoint.Client.PushNotificationSubscriber

Registers the push notification subscriber for the site (2). [<155>](#) If the registration already exists, the service token is updated with the new value.

**Parameters:**

*deviceAppInstanceId*: Device app instance identifier.

Type: CSOM GUID

*serviceToken*: Token provided by the notification service to the device to receive notifications.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147467261	System.ArgumentNullException	<b>Null</b> value passed for any of the required arguments.
- 2147024891	System.UnauthorizedAccessException	Caller does not have permissions for the site (2).

**3.2.5.144 Microsoft.SharePoint.Client.WebCollection**

**TypeId:** {C197D59E-D070-43BF-AD5E-10D6152E38A6}

**ShortName:** SP.WebCollection

Specifies a collection of sites (2).

### 3.2.5.144.1 Properties

#### 3.2.5.144.1.1 Scalar Properties

None.

#### 3.2.5.144.1.2 ObjectPath Properties

None.

### 3.2.5.144.2 Methods

#### 3.2.5.144.2.1 Scalar Methods

None.

#### 3.2.5.144.2.2 ObjectPath Methods

##### 3.2.5.144.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.Web

Creates a new site (2) and adds it to this collection of sites (2).

**Parameters:**

*parameters*: Specifies the properties of the new site (2).

Type: Microsoft.SharePoint.Client.WebCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024713	Microsoft.SharePoint.SPException	The URL specified in <i>parameters</i> is already in use.

### 3.2.5.145 Microsoft.SharePoint.Client.WebCreationInformation

**TypeId:** {8F9E9FBE-189E-492F-884F-98F9EF9CC4D6}

**ShortName:** SP.WebCreationInformation

Specifies the properties of a site (2) that is to be created.

#### 3.2.5.145.1 Properties

##### 3.2.5.145.1.1 Scalar Properties

###### 3.2.5.145.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description of the new site (2).

### 3.2.5.145.1.1.2 Language

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the LCID specifying the language of the new site (2).

It MUST be a valid LCID, as specified in [\[MS-LCID\]](#).

### 3.2.5.145.1.1.3 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the title of the new site (2).

Its length MUST be equal to or less than 255.

### 3.2.5.145.1.1.4 Url

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the leaf name of the new site (2).

It MUST NOT be NULL. Its length MUST be equal to or less than 128. It MUST NOT begin with or end with "/", ".". It MUST NOT contain consecutive "/" or ".". It MUST NOT contain /wpresources. It MUST NOT contain any of the following characters: '~', '"', '#', '%', '&', '\*', ':', '<', '>', '?', '\\', '{', '|', '}', '\x7f'.

### 3.2.5.145.1.1.5 UseSamePermissionsAsParentSite

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the new site (2) inherits permissions from its parent site.

### 3.2.5.145.1.1.6 WebTemplate

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the site template to be used for creating the new site (2)

It MUST refer to an existing site template.

### 3.2.5.145.1.2 ObjectPath Properties

None.

### 3.2.5.146 Microsoft.SharePoint.Client.WebParts.LimitedWebPartManager

**TypeId:** {AC641ADE-62DF-49C9-AF8E-ABDA6278E920}

**ShortName:** SP.WebParts.LimitedWebPartManager

Provides operations to access and modify the existing Web Parts on a Web Part Page, and add new ones to the Web Part Page.

#### 3.2.5.146.1 Properties

##### 3.2.5.146.1.1 Scalar Properties

###### 3.2.5.146.1.1.1 HasPersonalizedParts

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the Web Part Page contains one or more **personalized Web Parts**.

Its value MUST be "true" if both the personalization scope of the Web Part Page is "User" and the Web Part Page contains one or more personalized Web Parts; otherwise, it MUST be "false".

###### 3.2.5.146.1.1.2 Scope

**Type:** Microsoft.SharePoint.Client.WebParts.PersonalizationScope

**Accessibility:** Read Only

Specifies the current personalization scope of the Web Part Page.

Its value MUST be "User" if personalized data is loaded for the Web Parts on the Web Part Page, or "Shared" if common data for all users is loaded.

##### 3.2.5.146.1.2 ObjectPath Properties

###### 3.2.5.146.1.2.1 WebParts

**Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinitionCollection

**Accessibility:** Read Only

A collection of the Web Parts on the Web Part Page available to the current user based on the current user's permissions.

#### 3.2.5.146.2 Methods

##### 3.2.5.146.2.1 Scalar Methods

None.

## 3.2.5.146.2.2 ObjectPath Methods

### 3.2.5.146.2.2.1 AddWebPart

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Adds a Web Part to the Web Part Page and returns a reference (3) to the SP.WebParts.WebPartDefinition of the newly added Web Part.

When **Scope** is *User*, the current user MUST have permissions to add and delete personalized Web Parts. When **Scope** is *Shared*, the current user MUST have permissions to customize pages.

**Parameters:**

*webPart*: The Web Part to add to the Web Part Page.

Type: Microsoft.SharePoint.Client.WebParts.WebPart

Use **ImportWebPart** to import a Web Part, and then use **AddWebPart** to add it to the Web Part Page.

It MUST NOT be NULL.

*zoneId*: The name of the **Web Part zone** to which to add the Web Part.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 64.

*zoneIndex*: A **Web Part zone index** that specifies the position at which the Web Part is to be inserted within the Web Part zone.

Type: CSOM Int32

The new Web Part MUST be inserted directly before the existing Web Part with the lowest Web Part zone index greater than or equal to **zoneIndex**. If **zoneIndex** is greater than the index of all Web Parts in the zone or there are no Web Parts in the Web Part zone, then the new Web Part MUST be inserted at the end of the Web Part zone.

Its value MUST be equal to or greater than 0.

### 3.2.5.146.2.2.2 ImportWebPart

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Imports a Web Part from a string in the .dwp format as specified in [\[MS-WPPS\]](#) section 2.2.4.2, or the .webpart format as specified in [\[MS-WPPS\]](#) section 2.2.3.1. After importing, the Web Part is not added to a Web Part Page. To add a Web Part to a Web Part Page, use **AddWebPart**, supplying the object (1) returned by this method. A reference (3) to the added SP.WebParts.WebPartDefinition is returned.

When **Scope** is *User*, the current user MUST have permissions to add and delete personalized Web Parts. When **Scope** is *Shared*, the current user MUST have permissions to customize pages.

**Parameters:**

*webPartXml*: The Web Part markup to import.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. It MUST be valid XML in the .dwp or .webpart format.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.WebPartPages.WebPartPageUserException	The provided Web Part markup is not in the .dwp or .webpart format.

### 3.2.5.147 Microsoft.SharePoint.Client.WebParts.PersonalizationScope

**ShortName:** SP.WebParts.PersonalizationScope

**Flag:** false

Specifies the personalization scope for the **LimitedWebPartManager** object (1).

#### 3.2.5.147.1 Field Values

##### 3.2.5.147.1.1 User

**Value:** 0

**Personalization data** that is user-specific, as well as personalization data that applies to all users, is loaded for all Web Parts on a Web Part Page that support personalization data. Only personalization data that is user-specific is saved on the Web Part Page.

##### 3.2.5.147.1.2 Shared

**Value:** 1

Personalization data that applies to all users is loaded for all Web Parts on a Web Part Page and is available to be saved on the Web Part Page.

### 3.2.5.148 Microsoft.SharePoint.Client.WebParts.WebPart

**TypeId:** {612A6BD9-6C99-43C9-813A-8D7E19702118}

**ShortName:** SP.WebParts.WebPart

Represents a Web Part on a Web Part Page.

#### 3.2.5.148.1 Properties

##### 3.2.5.148.1.1 Scalar Properties

###### 3.2.5.148.1.1.1 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a Web Part is displayed on a Web Part Page.

If "true", the Web Part MUST be hidden. Web Parts that are hidden MUST NOT be displayed on the page to the end user, but SHOULD still participate normally in the rendering of the page. The default value is "false".

### 3.2.5.148.1.1.2 IsClosed

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether a Web Part is currently closed on a Web Part Page.

If "true", the Web Part is closed. Web Parts that are closed MUST NOT be displayed on the page, and MUST NOT participate normally in the rendering of the page. The default value is "false".

To open or close a Web Part, see **WebPartDefinition.OpenWebPart**, as specified in section [3.2.5.149.2.1.4](#), and **WebPartDefinition.CloseWebPart**, as specified in section [3.2.5.149.2.1.1](#).

### 3.2.5.148.1.1.3 Subtitle

**Type:** CSOM String

**Accessibility:** Read Only

Specifies a string that is concatenated with the **Title** property value to form a complete title for a Web Part.

The default value is an empty string ("").

### 3.2.5.148.1.1.4 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the title of a Web Part.

If this property is set to NULL, the title of the Web Part MUST instead be reset to its default value if one is specified in the Web Part's definition.

### 3.2.5.148.1.1.5 TitleUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a URL to the supplemental information about a Web Part.

If this property is set to NULL, the title URL of the Web Part MUST instead be reset to its default value if one is specified in the Web Part's definition.

The value of this property SHOULD be a valid URL, but the protocol server (2) MAY accept other strings without validating them.

### 3.2.5.148.1.1.6 ZoneIndex

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the index position of a Web Part within the Web Part zone.

The value is the numerical order of a Web Part within the Web Part zone. The first Web Part in a Web Part zone MUST have an index value of zero.

### 3.2.5.148.1.2 ObjectPath Properties

#### 3.2.5.148.1.2.1 Properties

**Type:** Microsoft.SharePoint.Client.PropertyValues

**Accessibility:** Read Only

Gets customizable properties for the Web Part as specified by

**Microsoft.SharePoint.Client.PropertyValues** (section [3.2.5.101](#)).<156>

### 3.2.5.148.2 Methods

#### 3.2.5.148.2.1 Scalar Methods

None.

#### 3.2.5.148.2.2 ObjectPath Methods

None.

### 3.2.5.149 Microsoft.SharePoint.Client.WebParts.WebPartDefinition

**TypeId:** {44BF1024-6127-432A-8E3D-FB317FB4541E}

**ShortName:** SP.WebParts.WebPartDefinition

Represents a Web Part on a Web Part Page. Provides operations for moving, deleting, and changing the state of the Web Part.

#### 3.2.5.149.1 Properties

##### 3.2.5.149.1.1 Scalar Properties

###### 3.2.5.149.1.1.1 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the **Web Part identifier** of the Web Part.

This value MUST be unique for each Web Part.



### 3.2.5.149.1.2 ObjectPath Properties

#### 3.2.5.149.1.2.1 WebPart

**Type:** Microsoft.SharePoint.Client.WebParts.WebPart

**Accessibility:** Read Only

The **WebPart** object (1), as specified in section [3.2.5.148](#), associated with this **WebPartDefinition**. The **WebPart** object (1) contains additional properties relating to the Web Part represented by this **WebPartDefinition** object (1).

Each **WebPartDefinition** object (1) MUST have exactly one **WebPart** object (1) associated with it. There can be multiple **WebPartDefinition** objects (1) with the same value for their **WebPart** property.

### 3.2.5.149.2 Methods

#### 3.2.5.149.2.1 Scalar Methods

##### 3.2.5.149.2.1.1 CloseWebPart

**Return Type:** None

Closes the Web Part. If the Web Part is already closed, this method does nothing.

If the current user does not have permissions to modify the Web Part, the server (2) MUST ignore the call to this method.

**Parameters:** None

##### 3.2.5.149.2.1.2 DeleteWebPart

**Return Type:** None

Deletes the Web Part from the page.

When **Scope** is **User**, the current user MUST have permissions to add and delete personalized Web Parts. When **Scope** is **Shared**, the current user MUST have permissions to customize pages.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.WebPartPages.WebPartPageUserException	The current user has insufficient permissions.

##### 3.2.5.149.2.1.3 MoveWebPartTo

**Return Type:** None

Moves the Web Part to a different location on a Web Part Page.

If the current user does not have permissions to modify the Web Part, the server (2) MUST ignore the call to this method.

**Parameters:**

*zoneID*: The name of the Web Part zone to which to move the Web Part.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 64.

*zoneIndex*: A Web Part zone index that specifies the position at which the Web Part is to be moved within the destination Web Part zone.

Type: CSOM Int32

The *zoneIndex* parameter for this method follows the same behavior as the *zoneIndex* parameter for **LimitedWebPartManager.AddWebPart**, as specified in section [3.2.5.146.2.2.1](#).

Its value MUST be equal to or greater than 0.

### 3.2.5.149.2.1.4 OpenWebPart

**Return Type:** None

Opens the Web Part. If the Web Part is already open, this method does nothing.

If the current user does not have permissions to modify the Web Part, the protocol server (2) MUST ignore the call to this method.

**Parameters:** None

### 3.2.5.149.2.1.5 SaveWebPartChanges

**Return Type:** None

Saves changes to the Web Part made by using other properties and methods on the WebPartDefinition object (1).

If the current user does not have permissions to modify the Web Part, the protocol server (2) MUST ignore the call to this method.

**Parameters:** None

### 3.2.5.149.2.2 ObjectPath Methods

None.

### 3.2.5.150 Microsoft.SharePoint.Client.WebParts.WebPartDefinitionCollection

**TypeId:** {01C986B2-57A6-49FB-B8F1-DF159F5B2349}

**ShortName:** SP.WebParts.WebPartDefinitionCollection

Implements a collection of Web Part definition objects (1).

### 3.2.5.150.1 Properties

#### 3.2.5.150.1.1 Scalar Properties

None.

#### 3.2.5.150.1.2 ObjectPath Properties

None.

### 3.2.5.150.2 Methods

#### 3.2.5.150.2.1 Scalar Methods

None.

#### 3.2.5.150.2.2 ObjectPath Methods

##### 3.2.5.150.2.2.1 GetById

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Returns the Web Part definition object (1) in the collection with a Web Part identifier equal to the *id* parameter.

**Parameters:**

*id*: The Web Part identifier of the Web Part definition to retrieve.

Type: CSOM GUID

All **WebPartDefinition** objects (1) MUST have a unique value for their **Id** property.

##### 3.2.5.150.2.2.2 GetByControlId

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Returns the **WebPartDefinition** object (1) in the collection with a Hypertext Markup Language (HTML) identifier attribute equal to the *controlId* parameter. <157>

**Parameters:**

*controlId*: The HTML identifier attribute of the **WebPartDefinition**.

Type: CSOM String

All **WebPartDefinition** objects (1) in the collection MUST have a unique value for their HTML identifier attribute.

**Exceptions:**

Error Code	Error Type Name	Condition
-2146233086	System.ArgumentOutOfRangeException	There is no <b>WebPartDefinition</b> object (1) in the collection with a <b>ControlId</b> property equal to the <i>controlId</i> parameter.

### 3.2.5.151 Microsoft.SharePoint.Client.WebTemplate

**TypeId:** {2BE10268-4BE1-4B5A-850D-D06B137A9C40}

**ShortName:** SP.WebTemplate

Specifies a site definition or a site template that is used to instantiate a site (2).

#### 3.2.5.151.1 Properties

##### 3.2.5.151.1.1 Scalar Properties

###### 3.2.5.151.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the description for the **site definition configuration** or site template.

###### 3.2.5.151.1.1.2 DisplayCategory

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name for the category that this site definition configuration or site template is a part of.

###### 3.2.5.151.1.1.3 Id

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the unique identifier for the site definition configuration or the site template.

###### 3.2.5.151.1.1.4 ImageUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL for the image that is associated with the site definition configuration or site template.

###### 3.2.5.151.1.1.5 IsHidden

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the site definition configuration is displayed in the user interface for creating new sites (2).

### **3.2.5.151.1.1.6 IsRootWebOnly**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the site definition configuration or site template can only be applied to the top-level site in the site collection.

### **3.2.5.151.1.1.7 IsSubWebOnly**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the site definition configuration or site template can only be applied to subsites created within the site collection.

### **3.2.5.151.1.1.8 Lcid**

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies the LCID for the site definition configuration or site template.

### **3.2.5.151.1.1.9 Name**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name for the site definition configuration or site template.

### **3.2.5.151.1.1.10 Title**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name for the site definition configuration or site template.

### **3.2.5.151.1.2 ObjectPath Properties**

None.

### **3.2.5.151.2 Methods**

#### **3.2.5.151.2.1 Scalar Methods**

None.

#### **3.2.5.151.2.2 ObjectPath Methods**

None.

### 3.2.5.152 Microsoft.SharePoint.Client.WebTemplateCollection

**TypeId:** {15C2ECDA-D49E-4FDA-97C8-C538A203DFB5}

**ShortName:** SP.WebTemplateCollection

Specifies a collection of site templates.

#### 3.2.5.152.1 Properties

##### 3.2.5.152.1.1 Scalar Properties

None.

##### 3.2.5.152.1.2 ObjectPath Properties

None.

#### 3.2.5.152.2 Methods

##### 3.2.5.152.2.1 Scalar Methods

None.

##### 3.2.5.152.2.2 ObjectPath Methods

###### 3.2.5.152.2.2.1 GetByName

**Return Type:** Microsoft.SharePoint.Client.WebTemplate

Returns the **SP.WebTemplate** (section [3.2.5.151](#)) specified by its name<158>

**Parameters:**

*strKey*: The name of the **SP.WebTemplate** that is returned.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147024809	System.ArgumentException	The <b>SP.WebTemplate</b> specified by <i>strKey</i> does not exist.

### 3.2.5.153 Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

**TypeId:** {5B590642-3966-4F67-B937-C1DB8528A1D3}

**ShortName:** SP.Workflow.WorkflowAssociation

Represents the association of a workflow template with a specific list (1) or content type

### 3.2.5.153.1 Properties

#### 3.2.5.153.1.1 Scalar Properties

##### 3.2.5.153.1.1.1 AllowManual

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether workflow instances based on this workflow association can be started manually. If the **AllowManual** property of the **BaseTemplate** is set to "false", setting this property results in no change to its value.

##### 3.2.5.153.1.1.2 AssociationData

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the workflow association data for workflow instances created from this workflow association.

##### 3.2.5.153.1.1.3 AutoStartChange

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether workflow instances are to be created from this workflow association and started automatically when a list item is changed. If the **AutoStartChange** property of the **BaseTemplate** for the workflow association is set to "false", setting this property results in no change to its value.

##### 3.2.5.153.1.1.4 AutoStartCreate

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether workflow instances are to be created from this workflow association and started automatically when a list item is created. If the **AutoStartCreate** property of the **BaseTemplate** for the workflow association is set to "false", setting this property results in no change to its value.

##### 3.2.5.153.1.1.5 BaseId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the workflow template on which this workflow association is based.

##### 3.2.5.153.1.1.6 Created

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the date and time at which this workflow association was created.

### 3.2.5.153.1.1.7 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description for this workflow association.

### 3.2.5.153.1.1.8 Enabled

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether new workflow instances is allowed for this workflow association.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Value is "true" and this workflow association is based on a non-declarative workflow template that has been deactivated.

### 3.2.5.153.1.1.9 HistoryListTitle

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the title of the list (1) to which to log workflow (2) history events (2) for this workflow association.

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

### 3.2.5.153.1.1.10 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the workflow association. Every workflow association MUST return its own GUID for this property.

### 3.2.5.153.1.1.11 InstantiationUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL of the **workflow initiation form** for this workflow association.



### 3.2.5.153.1.1.12 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the internal name of this workflow association, as determined by the **WorkflowAssociation** implementation.

### 3.2.5.153.1.1.13 IsDeclarative

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the workflow association represents a declarative workflow.

### 3.2.5.153.1.1.14 ListId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the list (1) on which this workflow association resides.

### 3.2.5.153.1.1.15 Modified

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the date and time at which this workflow association was last modified.

### 3.2.5.153.1.1.16 Name

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of this workflow association.

### 3.2.5.153.1.1.17 TaskListTitle

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the title of the list (1) within which **workflow tasks** are to be created for this workflow association.

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

### 3.2.5.153.1.1.18 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the site (2) on which the workflow association resides.

### 3.2.5.153.1.2 ObjectPath Properties

None.

### 3.2.5.153.2 Methods

#### 3.2.5.153.2.1 Scalar Methods

##### 3.2.5.153.2.1.1 DeleteObject

**Return Type:** None

Removes this workflow association from its parent **WorkflowAssociations** collection.

**Parameters:** None

##### 3.2.5.153.2.1.2 Update

**Return Type:** None

Informs this workflow association's parent **WorkflowAssociations** collection that changes have been made to this workflow association.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	This workflow association is on an external list.

#### 3.2.5.153.2.2 ObjectPath Methods

None.

### 3.2.5.154 Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCollection

**TypeId:** {4E1196EA-CE71-4AA9-B3C0-3F8DA05DEEC9}

**ShortName:** SP.Workflow.WorkflowAssociationCollection

Implements a collection of workflow association objects (1). Provides operations for listing existing workflow associations and adding new ones.

#### 3.2.5.154.1 Properties

##### 3.2.5.154.1.1 Scalar Properties

None.

##### 3.2.5.154.1.2 ObjectPath Properties

None.

## 3.2.5.154.2 Methods

### 3.2.5.154.2.1 Scalar Methods

None.

### 3.2.5.154.2.2 ObjectPath Methods

#### 3.2.5.154.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

Creates a new workflow association based on properties specified in the **parameters** object (1), and adds the object (1) representing that workflow association to the collection.

**Parameters:**

*parameters*: An object (1) that specifies the parameters used to create the workflow association.

Type: Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCreationInformation

It MUST NOT be NULL.

#### 3.2.5.154.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

Returns the workflow association in the collection with an identifier equal to the *associationId* parameter, or NULL if no such object (1) exists in the collection or *associationId* is an empty GUID.

**Parameters:**

*associationId*: The GUID of the workflow association object (1) to retrieve.

Type: CSOM GUID

Each workflow association MUST have a unique GUID.

#### 3.2.5.154.2.2.3 GetByName

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

Returns the workflow association in the collection with a **Name** property equal to the *name* parameter, or NULL if no such object (1) exists in the collection.

**Parameters:**

*name*: The name of the workflow association to retrieve.

Type: CSOM String

All workflow association objects (1) in the collection MUST have unique values for their **Name** property.

### 3.2.5.155

#### Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCreationInformation

**TypeId:** {3C812F4F-8465-41CB-B298-BD33B2604A51}

**ShortName:** SP.Workflow.WorkflowAssociationCreationInformation

Specifies properties for a new workflow association.

#### 3.2.5.155.1 Properties

##### 3.2.5.155.1.1 Scalar Properties

###### 3.2.5.155.1.1.1 ContentTypeAssociationHistoryListName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the workflow history list to be used by a site content type workflow association.

Its value MUST NOT be NULL and MUST NOT be empty if the workflow (2) are to be created with a site content type workflow template and the value of **HistoryList** is NULL. Its value MUST be ignored for any other type of workflow template.

###### 3.2.5.155.1.1.2 ContentTypeAssociationTaskListName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the **workflow task list** to be used by a site content type workflow association.

Its value MUST NOT be NULL and MUST NOT be empty if the workflow (2) are to be created with a site content type workflow template and the value of **TaskList** is NULL. Its value MUST be ignored for any other type of workflow template.

###### 3.2.5.155.1.1.3 Name

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name to be given to the workflow association.

Its value MUST NOT be NULL. Its value MUST NOT be empty. Its value MUST NOT be equal to the name of an existing workflow association that is associated with the same object (1) as the new workflow association.

##### 3.2.5.155.1.2 ObjectPath Properties

###### 3.2.5.155.1.2.1 HistoryList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read/Write

Specifies the workflow history list to be used by the workflow association.

Its value MUST NOT be NULL, unless the workflow (2) are to be based on a site content type workflow template and the value of **Content.Type.Association.History.ListName** is not NULL and NOT empty.

### 3.2.5.155.1.2.2 TaskList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read/Write

Specifies the workflow task list to be used by the workflow association.

Its value MUST NOT be NULL, unless the workflow (2) is to be based on a site content type workflow template and the value of **ContentType.Association.Task.List.Name** is not NULL or empty.

### 3.2.5.155.1.2.3 Template

**Type:** Microsoft.SharePoint.Client.Workflow.WorkflowTemplate

**Accessibility:** Read/Write

Specifies the workflow template to be used in the workflow association.

Its value MUST NOT be NULL.

## 3.2.5.156 Microsoft.SharePoint.Client.Workflow.WorkflowTemplate

**TypeId:** {36DE6DBB-60D6-4131-B47F-E895798E1E93}

**ShortName:** SP.Workflow.WorkflowTemplate

Represents a workflow template currently deployed on the site (2).

### 3.2.5.156.1 Properties

#### 3.2.5.156.1.1 Scalar Properties

##### 3.2.5.156.1.1.1 AllowManual

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether workflow associations based on this workflow template can be configured to allow workflow instances to be started manually.

##### 3.2.5.156.1.1.2 AssociationUrl

**Type:** CSOM String

**Accessibility:** Read Only

The site-relative URL of the workflow association form (1) to use with the workflow template. If the workflow template has no workflow association form (1), the URL MUST return an empty string ("").

It MUST be a URL of relative form.

#### **3.2.5.156.1.1.3 AutoStartChange**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether workflow associations based on this workflow template can be configured to start workflow instances automatically when an item is changed.

#### **3.2.5.156.1.1.4 AutoStartCreate**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether workflow associations based on this workflow template can be configured to start workflow instances automatically when an item is created.

#### **3.2.5.156.1.1.5 Description**

**Type:** CSOM String

**Accessibility:** Read Only

The description for the workflow template.

Its length MUST be equal to or less than 255.

#### **3.2.5.156.1.1.6 Id**

**Type:** CSOM GUID

**Accessibility:** Read Only

The workflow template identifier. Every template MUST have its own unique GUID.

#### **3.2.5.156.1.1.7 IsDeclarative**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the workflow template represents a declarative workflow.

#### **3.2.5.156.1.1.8 Name**

**Type:** CSOM String

**Accessibility:** Read Only

The name of the workflow template. This name is displayed in the user interface when creating new workflow associations of this template

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

### **3.2.5.156.1.1.9 PermissionsManual**

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

The permission level required for a user to manually start workflow instances based on the workflow template.

### **3.2.5.156.1.2 ObjectPath Properties**

None.

### **3.2.5.156.2 Methods**

#### **3.2.5.156.2.1 Scalar Methods**

None.

#### **3.2.5.156.2.2 ObjectPath Methods**

None.

### **3.2.5.157 Microsoft.SharePoint.Client.Workflow.WorkflowTemplateCollection**

**TypeId:** {F64CC3D2-888A-43CC-B579-EF32F83338A4}

**ShortName:** SP.Workflow.WorkflowTemplateCollection

The collection of workflow templates deployed on a site (2).

#### **3.2.5.157.1 Properties**

##### **3.2.5.157.1.1 Scalar Properties**

None.

##### **3.2.5.157.1.2 ObjectPath Properties**

None.

#### **3.2.5.157.2 Methods**

##### **3.2.5.157.2.1 Scalar Methods**

None.

##### **3.2.5.157.2.2 ObjectPath Methods**

###### **3.2.5.157.2.2.1 GetById**

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowTemplate

Returns a workflow template based on the workflow template identifier.

It MUST return the **WorkflowTemplate** object (1) in the collection with an Id property equal to the *templateId* parameter, or null if no such workflow template exists in the collection.

**Parameters:**

*templateId*: The identifier of the **WorkflowTemplate** to retrieve.

Type: CSOM GUID

### 3.2.5.157.2.2.2 GetByName

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowTemplate

Returns the workflow template matching the *name* provided.

It MUST return the **WorkflowTemplate** object (1) with **Name** property equal to the *name* parameter, or null if no such **WorkflowTemplate** exists in the collection. All **WorkflowTemplate** objects (1) in the collection MUST have a unique value for their **Name** property.

**Parameters:**

*name*: The name of the workflow template to retrieve.

Type: CSOM String

It MUST NOT be NULL.

### 3.2.5.158 Microsoft.BusinessData.MetadataModel.Collections.EntityFieldCollection

**TypeId:** {53746712-30F8-4626-8BC5-B1A421452652}

**ShortName:** SP.BusinessData.Collections.EntityFieldCollection

Represents a read only collection of Fields (2). [<159>](#)

#### 3.2.5.158.1 Properties

##### 3.2.5.158.1.1 Scalar Properties

None.

##### 3.2.5.158.1.2 ObjectPath Properties

None.

#### 3.2.5.158.2 Methods

##### 3.2.5.158.2.1 Scalar Methods

None.

##### 3.2.5.158.2.2 ObjectPath Methods

None.



### 3.2.5.159

#### **Microsoft.BusinessData.MetadataModel.Collections.EntityIdentifierCollection**

**TypeId:** {0BF0D5B7-DF64-4520-A1E1-76BC7517EE24}

**ShortName:** SP.BusinessData.Collections.EntityIdentifierCollection

Represents a read only collection of identifiers. [.<160>](#)

#### **3.2.5.159.1 Properties**

##### **3.2.5.159.1.1 Scalar Properties**

None.

##### **3.2.5.159.1.2 ObjectPath Properties**

None.

#### **3.2.5.159.2 Methods**

##### **3.2.5.159.2.1 Scalar Methods**

None.

##### **3.2.5.159.2.2 ObjectPath Methods**

None.

### 3.2.5.160

#### **Microsoft.BusinessData.MetadataModel.Collections.LobSystemInstanceCollection**

**TypeId:** {3688D19C-D248-48CD-A46E-5F6719073953}

**ShortName:** SP.BusinessData.Collections.LobSystemInstanceCollection

Represents a read only collection of **LobSystemInstances**. [.<161>](#)

#### **3.2.5.160.1 Properties**

##### **3.2.5.160.1.1 Scalar Properties**

None.

##### **3.2.5.160.1.2 ObjectPath Properties**

None.

#### **3.2.5.160.2 Methods**

##### **3.2.5.160.2.1 Scalar Methods**

None.

### 3.2.5.160.2.2 ObjectPath Methods

None.

### 3.2.5.161

#### Microsoft.BusinessData.MetadataModel.Collections.TypeDescriptorCollection

**TypeId:** {E33CCA95-E780-4A9E-8704-FEE069A29E02}

**ShortName:** SP.BusinessData.Collections.TypeDescriptorCollection

Represents a read only collection of type descriptors. [<162>](#)

#### 3.2.5.161.1 Properties

##### 3.2.5.161.1.1 Scalar Properties

None.

##### 3.2.5.161.1.2 ObjectPath Properties

None.

#### 3.2.5.161.2 Methods

##### 3.2.5.161.2.1 Scalar Methods

None.

##### 3.2.5.161.2.2 ObjectPath Methods

None.

### 3.2.5.162 Microsoft.BusinessData.MetadataModel.EntityField

**TypeId:** {2EA29BD5-5A5E-407C-A956-BA7BABC6DCC7}

**ShortName:** SP.BusinessData.EntityField

Represents a data element in a view. [<163>](#)

#### 3.2.5.162.1 Properties

##### 3.2.5.162.1.1 Scalar Properties

##### 3.2.5.162.1.1.1 ContainsLocalizedDisplayName

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the **EntityField** (section [3.2.5.162](#)) contains a localized display name.

### 3.2.5.162.1.1.2 DefaultDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the default display name of the **EntityField** (section [3.2.5.162](#)).

### 3.2.5.162.1.1.3 LocalizedDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the localized display name of the **EntityField** (section [3.2.5.162](#)).

### 3.2.5.162.1.1.4 Name

**Type:** CSOM String

**Accessibility:** Read Only

Retrieves the name of the **EntityField** (section [3.2.5.162](#)).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.162.1.2 ObjectPath Properties

None.

### 3.2.5.162.2 Methods

#### 3.2.5.162.2.1 Scalar Methods

None.

#### 3.2.5.162.2.2 ObjectPath Methods

None.

### 3.2.5.163 Microsoft.BusinessData.MetadataModel.EntityView

**TypeId:** {971264EB-8186-4B1D-9FB0-F3F9D2BDFB66}

**ShortName:** SP.BusinessData.EntityView

Represents a collection of fields (2). [<164>](#)

#### 3.2.5.163.1 Properties

##### 3.2.5.163.1.1 Scalar Properties

###### 3.2.5.163.1.1.1 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the **EntityView** (section [3.2.5.163](#)).

### 3.2.5.163.1.1.2 RelatedSpecificFinderName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies name of the SpecificFinder method instance of this **EntityView** (section [3.2.5.163](#)).

If the view contains a set of fields(2) that are not completely addressed by any of the **Finders** in the external content type, then this property MUST return null.

### 3.2.5.163.1.2 ObjectPath Properties

#### 3.2.5.163.1.2.1 Fields

**Type:** Microsoft.BusinessData.MetadataModel.Collections.EntityFieldCollection

**Accessibility:** Read Only

Specifies the collection of fields (2) in the view.

### 3.2.5.163.2 Methods

#### 3.2.5.163.2.1 Scalar Methods

##### 3.2.5.163.2.1.1 GetType

**Return Type:** CSOM String

Specifies the type descriptor for input field.

**Parameters:**

*fieldDotNotation*: The input field.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	<i>Input field</i> is <b>null</b> .
-1	System.InvalidOperationException	Type descriptor with the given field does not exist.

##### 3.2.5.163.2.1.2 GetXmlSchema

**Return Type:** CSOM String

Gets the XML schema of the view.

The schema returned from this method can be used to generate a user interface form to display or edit the data that corresponds to this view.

The XML namespace specified by the XML schema is implementation-specific. The XML schema MUST specify the root element that corresponds to the View. The name of the root element MUST be equal to the name of the View. The root element MUST contain exactly one XML element for each of the field (2) in the View. The XML element is declared based on the TypeDescriptors that correspond to field (2)

**Parameters:** None

### 3.2.5.163.2.2 ObjectPath Methods

#### 3.2.5.163.2.2.1 GetDefaultValues

**Return Type:** Microsoft.BusinessData.Runtime.EntityFieldValueDictionary

Gets a **FieldValueDictionary** (section [3.2.5.164](#)) that contains the default values for this view.

**Parameters:** None

#### 3.2.5.163.2.2.2 GetTypeDescriptor

**Return Type:** Microsoft.BusinessData.MetadataModel.TypeDescriptor

Gets the **TypeDescriptor** (section [3.2.5.182](#)) object that corresponds to the given field name.

**Parameters:**

*fieldDotNotation:* The given field name.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	<i>fieldDotNotation</i> is <b>null</b> .
-1	System.InvalidOperationException	Type descriptor with the given field name does not exist.

### 3.2.5.164 Microsoft.BusinessData.Runtime.EntityFieldValueDictionary

**TypeId:** {5BC2B16A-0BEE-449A-9EF0-8A504CA2AD22}

**ShortName:** SP.BusinessData.Runtime.EntityFieldValueDictionary

Specifies the field (2) value dictionary for data exchange. [<165>](#) The field is specified using Dot notation, which is a representation of the data elements similar to accessing data elements in C#. Each data element is accessed by providing their parent data element and the name of the data element if the containing data element is a structure, or the index of the data element, if the containing element is a collection.

### 3.2.5.164.1 Properties

#### 3.2.5.164.1.1 Scalar Properties

None.

#### 3.2.5.164.1.2 ObjectPath Properties

None.

### 3.2.5.164.2 Methods

#### 3.2.5.164.2.1 Scalar Methods

##### 3.2.5.164.2.1.1 CreateCollectionInstance

**Return Type:** None

Creates and initializes a new instance of the collection specified by the field name.

**Parameters:**

*fieldDotNotation*: The path to the collection.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*size*: The size of the collection.

Type: CSOM Int32

Its value MUST be equal to or greater than 0.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	<i>fieldDotNotation</i> is <b>null</b> or empty.
-1	System.InvalidOperationException	Type descriptor with the given field name does not exist

##### 3.2.5.164.2.1.2 CreateInstance

**Return Type:** None

Creates and initializes a new instance of the object specified by the given field name.

**Parameters:**

*fieldInstanceDotNotation*: The path to the instance of the object to create.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*fieldDotNotation*: The path to the object.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	Atleast one of the given field name is <b>null</b> or empty.
-1	System.InvalidOperationException	Type descriptor with the given field name does not exist.

### 3.2.5.164.2.1.3 FromXml

**Return Type:** None

Sets the value in the field (2) value dictionary (section [3.2.5.164](#)) from the given XML.

**Parameters:**

*xml*: A string containing the XML data.

Type: CSOM String

An example of the XML format is specified in section [3.2.5.164.2.1.6](#)

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	Input XML is <b>null</b> or empty.

### 3.2.5.164.2.1.4 GetCollectionSize

**Return Type:** CSOM Int32

Returns the size of the collection specified by the field name.

**Parameters:**

*fieldDotNotation*: The path to the collection.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	<i>fieldDotNotation</i> is <b>null</b> or empty.

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	Type descriptor with the given field name doesn't exist.

### 3.2.5.164.2.1.5 SetFieldValue

**Return Type:** None

Sets a value in the field (2) value dictionary.

**Parameters:**

*fieldDotNotation*: The input field name.

Type: CSOM String

*value*: Value to be set,

Type: System.Object

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	<i>fieldDotNotation</i> is <b>null</b> or empty.
-1	System.InvalidOperationException	Type descriptor with the given field name does not exist.

### 3.2.5.164.2.1.6 ToXml

**Return Type:** CSOM String

Returns the value in the field (2) value dictionary in XML.

The XML output is implementation specific. One such example of the XML output having four values in the EntityFieldValueDictionary is

```
<GenericEntityGenericInvoker
xmlns="http://tempuri.org/XMLSchema.xsd/Microsoft.Lobi.WCFModel">
<DoubleValue>555</DoubleValue>
<FloatValue>5</FloatValue>
<IntValue>55</IntValue>
<ShortValue>105</ShortValue>
</GenericEntityGenericInvoker>
```

**Parameters:** None



### 3.2.5.164.2.2 ObjectPath Methods

None.

### 3.2.5.165 Microsoft.BusinessData.Runtime.EntityIdentity

**TypeId:** {36C08DBD-02E6-493E-99F5-DF3F18342F85}

**ShortName:** SP.BusinessData.Runtime.EntityIdentity

Specifies a metadata for Entity identity. [<166>](#)

#### 3.2.5.165.1 Properties

##### 3.2.5.165.1.1 Scalar Properties

###### 3.2.5.165.1.1.1 IdentifierCount

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the count of the identifiers.

###### 3.2.5.165.1.1.2 IsTemporary

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the identity is temporary.

###### 3.2.5.165.1.1.3 TemporaryId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies temporary internal identifier

##### 3.2.5.165.1.2 ObjectPath Properties

None.

#### 3.2.5.165.2 Methods

##### 3.2.5.165.2.1 Scalar Methods

###### 3.2.5.165.2.1.1 Serialize

**Return Type:** CSOM String

Specifies a string representation of the identity.

**Parameters:** None

## 3.2.5.165.2.2 ObjectPath Methods

### 3.2.5.165.2.2.1 CSOM Constructor

Initializes a new instance from one or more identifier values. These identifiers uniquely identify an entity instance.

For example, a Customer entity can have Customer First Name and Customer Last Name as identifiers.

**Parameters:**

*identifierValues*: identifier values.

Type: System.Object[]

## 3.2.5.166 Microsoft.BusinessData.Runtime.EntityInstance

**TypeId:** {C75B5D2D-1E0C-41E2-89D1-A3B6016AC9CE}

**ShortName:** SP.BusinessData.Runtime.EntityInstance

Represents instances of business objects and data associated with the object. [<167>](#) For example, customer and order information in a **back-end database server** business application.

### 3.2.5.166.1 Properties

#### 3.2.5.166.1.1 Scalar Properties

None.

#### 3.2.5.166.1.2 ObjectPath Properties

None.

### 3.2.5.166.2 Methods

#### 3.2.5.166.2.1 Scalar Methods

##### 3.2.5.166.2.1.1 CreateCollectionInstance

**Return Type:** None

Creates and initializes a new instance of the collection specified by the given field name.

**Parameters:**

*fieldDotNotation*: The path to the collection.

Type: CSOM String

*size*: The size of the collection.

Type: CSOM Int32

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	<i>fieldDotNotation</i> is <b>null</b> or empty.
-1	System.InvalidOperationException	Type descriptor with the given field name does not exist.

### 3.2.5.166.2.1.2 CreateInstance

**Return Type:** None

Creates and initializes a new instance of the object referred by the given field name.

**Parameters:**

*fieldInstanceDotNotation*: The path to the instance of the object to create.

Type: CSOM String

*fieldDotNotation*: The path to the object.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	Atleast one of the given field names is <b>null</b> or empty.
-1	System.InvalidOperationException	Type descriptor with the given field name does not exist.

### 3.2.5.166.2.1.3 DeleteObject

**Return Type:** None

Deletes this **EntityInstance** (section [3.2.5.166](#))..

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permission to delete the external item.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	The item to delete does not exist anymore.

### 3.2.5.166.2.1.4 FromXml

**Return Type:** None

Specifies the value in this dictionary from given XML.

**Parameters:**

*xml*: A string containing the XML value.

Type: CSOM String

An example of the XML format is specified in section [3.2.5.164.2.1.6](#)

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	Input XML is <b>null</b> or empty.

### 3.2.5.166.2.1.5 SetFieldValue

**Return Type:** None

S.

**Parameters:**

*fieldDotNotation*: The input field (2) name

Type: CSOM String

*value*: Value to be set.

Type: System.Object

**Exceptions:**

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	<i>fieldDotNotation</i> is <b>null</b> or empty
-1	System.InvalidOperationException	Type descriptor with the given field name does not exist.

### 3.2.5.166.2.1.6 ToXml

**Return Type:** CSOM String

Returns methods and properties defined in **EntityInstance** (section [3.2.5.166](#)) in XML format.

An example of XML output format is specified in section [3.2.5.164.2.1.6](#)

**Parameters:** None

### 3.2.5.166.2.1.7 Update

**Return Type:** None

Invokes update method for this **EntityInstance** (section [3.2.5.166](#)).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permission to update the external item.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	The item to update does not exist anymore.

### 3.2.5.166.2.2 ObjectPath Methods

#### 3.2.5.166.2.2.1 GetIdentity

**Return Type:** Microsoft.BusinessData.Runtime.EntityIdentity

Returns the identity of this **EntityInstance** (section [3.2.5.166](#)).

**Parameters:** None

### 3.2.5.167 Microsoft.SharePoint.Administration.UrlZone

**ShortName:** Microsoft.SharePoint.Administration.UrlZone

**Flag:** false

Represents a location in the **topology** of the farm. [<168>](#)

#### 3.2.5.167.1 Field Values

##### 3.2.5.167.1.1 DefaultZone

**Value:** 0

Specifies the default zone used for requests unless another zone is specified.

##### 3.2.5.167.1.2 Intranet

**Value:** 1

Specifies an intranet zone.

##### 3.2.5.167.1.3 Internet

**Value:** 2

Specifies an internet zone.

##### 3.2.5.167.1.4 Custom

**Value:** 3

Specifies a custom zone.

### 3.2.5.167.1.5 Extranet

**Value:** 4

Specifies an extranet zone.

### 3.2.5.168 Microsoft.SharePoint.Client.AlternateUrl

**TypeId:** {19E49AB8-90D1-44E1-B186-FACE114707F5}

**ShortName:** SP.AlternateUrl

Encapsulates a URL and the zone with which it is associated. [<169>](#)

#### 3.2.5.168.1 Properties

##### 3.2.5.168.1.1 Scalar Properties

###### 3.2.5.168.1.1.1 Uri

**Type:** CSOM String

**Accessibility:** Read Only

Identical to the incoming URL, but in URI form.

###### 3.2.5.168.1.1.2 UrlZone

**Type:** Microsoft.SharePoint.Administration.UrlZone

**Accessibility:** Read Only

Specifies the zone associated with this URL.

###### 3.2.5.168.1.2 ObjectPath Properties

None.

##### 3.2.5.168.2 Methods

###### 3.2.5.168.2.1 Scalar Methods

None.

###### 3.2.5.168.2.2 ObjectPath Methods

None.

### 3.2.5.169 Microsoft.SharePoint.Client.Analytics.EventTypeId

**ShortName:** SP.Analytics.EventTypeId

**Flag:** false

Specifies the type of an analytics event. [<170>](#)

### **3.2.5.169.1 Field Values**

#### **3.2.5.169.1.1 View**

**Value:** 1

Specifies an event associated with viewing an item.

#### **3.2.5.169.1.2 First**

**Value:** 1

Reserved. This value will be removed in a future iteration of the protocol.

#### **3.2.5.169.1.3 RecommendationView**

**Value:** 2

Specifies the event associated with displaying an item recommendation.

#### **3.2.5.169.1.4 RecommendationClick**

**Value:** 3

Specifies the event associated with following an item recommendation.

#### **3.2.5.169.1.5 Last**

**Value:** 3

Reserved. This value will be removed in a future iteration of the protocol.

#### **3.2.5.169.1.6 None**

**Value:** 0

Specifies an event type that is not valid.

### **3.2.5.170 Microsoft.SharePoint.Client.Analytics.SPAnalyticsUsageEntry**

**TypeId:** {47228DF5-E073-47CA-97A8-A0537B77A1DF}

**ShortName:** SP.Analytics.SPAnalyticsUsageEntry

Specifies an analytics usage entry to log user or system events. [<171>](#)

#### **3.2.5.170.1 Properties**

##### **3.2.5.170.1.1 Scalar Properties**

None.

##### **3.2.5.170.1.2 ObjectPath Properties**

None.

## 3.2.5.170.2 Methods

### 3.2.5.170.2.1 Scalar Methods

#### 3.2.5.170.2.1.1 LogAnalyticsEvent

This method is a static CSOM method.

**Return Type:** None

Creates and logs an analytics event into the analytics pipeline.

**Parameters:**

*eventType*: The event type identifier of the analytics event to create.

Type: CSOM Int32

MUST be one of the values specified by Microsoft.SharePoint.Client.Analytics.EventTypeId.

*itemId*: The identifier of the item for which the event is being logged for.

Type: CSOM String

MUST be less than or equal to 260 characters.

#### 3.2.5.170.2.2 ObjectPath Methods

None.

### 3.2.5.171 Microsoft.SharePoint.Client.Attachment

**TypeId:** {ABD102DE-1731-4BE2-AE7E-3515371CC5C7}

**ShortName:** SP.Attachment

Specifies a list item attachment. [<172>](#)

#### 3.2.5.171.1 Properties

##### 3.2.5.171.1.1 Scalar Properties

###### 3.2.5.171.1.1.1 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the server-relative URL of a list item attachment.

###### 3.2.5.171.1.1.2 FileName

**Type:** CSOM String

**Accessibility:** Read Only



Specifies the file name of the list item attachment.

### **3.2.5.171.1.2 ObjectPath Properties**

None.

### **3.2.5.171.2 Methods**

#### **3.2.5.171.2.1 Scalar Methods**

##### **3.2.5.171.2.1.1 DeleteObject**

**Return Type:** None

Deletes this list item attachment.

**Parameters:** None

#### **3.2.5.171.2.2 ObjectPath Methods**

None.

### **3.2.5.172 Microsoft.SharePoint.Client.AttachmentCollection**

**TypeId:** {F4E86471-7DAB-4B47-B061-50A40E27140E}

**ShortName:** SP.AttachmentCollection

Specifies a collection of list item attachments. [<173>](#)

#### **3.2.5.172.1 Properties**

##### **3.2.5.172.1.1 Scalar Properties**

None.

##### **3.2.5.172.1.2 ObjectPath Properties**

None.

#### **3.2.5.172.2 Methods**

##### **3.2.5.172.2.1 Scalar Methods**

None.

##### **3.2.5.172.2.2 ObjectPath Methods**

###### **3.2.5.172.2.2.1 Add**

**Return Type:** Microsoft.SharePoint.Client.Attachment

Adds the attachment represented by the file name and stream in the specified parameter to the list item.

**Parameters:**

*parameters*: The creation information which contains file name and content stream.

Type: Microsoft.SharePoint.Client.AttachmentCreationInformation

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024809	System.ArgumentException	The <b>ContentStream</b> property of <i>parameters</i> is NULL, or the <b>FileName</b> property of <i>parameters</i> is NULL or empty.
- 2147467261	System.ArgumentNullException	<i>parameters</i> is NULL.

**3.2.5.172.2.2.2 GetByFileName**

**Return Type:** Microsoft.SharePoint.Client.Attachment

Returns the list item attachment with the specified file name.

**Parameters:**

*fileName*: The specified file name.

Type: CSOM String

**3.2.5.173 Microsoft.SharePoint.Client.AttachmentCreationInformation**

**TypeId:** {EDF6309C-8142-4133-921E-4D6AEC35550D}

**ShortName:** SP.AttachmentCreationInformation

Specifies a list item attachment. <174>

**3.2.5.173.1 Properties****3.2.5.173.1.1 Scalar Properties****3.2.5.173.1.1.1 ContentStream**

**Type:** CSOM Stream

**Accessibility:** Read/Write

The contents of the file as a stream (1).

**3.2.5.173.1.1.2 FileName**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the file name of the list item attachment.

### 3.2.5.173.1.2 ObjectPath Properties

None.

### 3.2.5.174 Microsoft.SharePoint.Client.ServerSettings

**TypeId:** {ADFA7B3E-A27C-4288-9B6C-A8EA51BF082D}

**ShortName:** SP.ServerSettings

Provides methods for obtaining protocol server (2) properties that correspond to different Web application zones. [<175>](#)

#### 3.2.5.174.1 Properties

##### 3.2.5.174.1.1 Scalar Properties

None.

##### 3.2.5.174.1.2 ObjectPath Properties

None.

#### 3.2.5.174.2 Methods

##### 3.2.5.174.2.1 Scalar Methods

###### 3.2.5.174.2.1.1 GetBlockedFileExtensions

This method is a static CSOM method.

**Return Type:** System.Collections.Generic.IEnumerable<System.String>

Returns the blocked file extensions for the current site (2).

**Parameters:** None

##### 3.2.5.174.2.2 ObjectPath Methods

None.

### 3.2.5.175 Microsoft.SharePoint.Client.WebProxy

**TypeId:** {656A77C4-1634-415C-BF85-C6C0CB286E0E}

**ShortName:** SP.WebProxy

Specifies an infrastructure for the protocol server to make outbound **Hypertext Transfer Protocol (HTTP)** requests based on parameters specified by the client. [<176>](#)

### 3.2.5.175.1 Properties

#### 3.2.5.175.1.1 Scalar Properties

None.

#### 3.2.5.175.1.2 ObjectPath Properties

None.

### 3.2.5.175.2 Methods

#### 3.2.5.175.2.1 Scalar Methods

##### 3.2.5.175.2.1.1 Invoke

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.WebResponseInfo

Specifies that the protocol server should make an outbound Hypertext Transfer Protocol (HTTP) request using the specified parameters.

**Parameters:**

*requestInfo*: A **WebRequestInfo** (section [3.2.5.176](#)) object that contains the URL, headers and body of the request.

Type: Microsoft.SharePoint.Client.WebRequestInfo

#### 3.2.5.175.2.2 ObjectPath Methods

None.

### 3.2.5.176 Microsoft.SharePoint.Client.WebRequestInfo

**TypeId:** {71AA825D-BC12-422D-A177-D2E63FE68CD9}

**ShortName:** SP.WebRequestInfo

Specifies metadata about a Hypertext Transfer Protocol (HTTP) request. [<177>](#)

#### 3.2.5.176.1 Properties

##### 3.2.5.176.1.1 Scalar Properties

###### 3.2.5.176.1.1.1 Body

**Type:** CSOM String

**Accessibility:** Read/Write

The content of the request, as described in [\[RFC2616\]](#) section 4.3.

### 3.2.5.176.1.1.2 Headers

**Type:** CSOM dictionary

**Accessibility:** Read/Write

The headers of the request, as described in [\[RFC2616\]](#) section 4.2.

### 3.2.5.176.1.1.3 Method

**Type:** CSOM String

**Accessibility:** Read/Write

The **HTTP method** of the request, as described in [\[RFC2616\]](#) section 5.1.1.

It MUST NOT be empty.

### 3.2.5.176.1.1.4 Url

**Type:** CSOM String

**Accessibility:** Read/Write

The target URL of the request.

It MUST be a URL of absolute form. Its length MUST be equal to or less than 255.

### 3.2.5.176.1.2 ObjectPath Properties

None.

## 3.2.5.177 Microsoft.SharePoint.Client.WebResponseInfo

**TypeId:** {73B6054A-AA40-41E4-A34F-5A6F898E6D4F}

**ShortName:** SP.WebResponseInfo

Specifies metadata about a Hypertext Transfer Protocol (HTTP) response. [<178>](#)

### 3.2.5.177.1 Properties

#### 3.2.5.177.1.1 Scalar Properties

##### 3.2.5.177.1.1.1 Body

**Type:** CSOM String

**Accessibility:** Read/Write

The content of the response, as described in [\[RFC2616\]](#) section 4.3.

##### 3.2.5.177.1.1.2 Headers

**Type:** CSOM dictionary

**Accessibility:** Read/Write

The headers of the response, as described in [\[RFC2616\]](#) section 4.2.

### 3.2.5.177.1.1.3 StatusCode

**Type:** CSOM Int32

**Accessibility:** Read/Write

The **Status-Code** of the response, as described in [\[RFC2616\]](#) section 10.

### 3.2.5.177.1.2 ObjectPath Properties

None.

### 3.2.5.178 Microsoft.BusinessData.MetadataModel.Entity

**TypeId:** {493FB354-E4A4-4577-B7F4-64BB868C128E}

**ShortName:** SP.BusinessData.Entity

Specifies an external content type in a **line-of-business (LOB) system** application. [<179>](#)

#### 3.2.5.178.1 Properties

##### 3.2.5.178.1.1 Scalar Properties

###### 3.2.5.178.1.1.1 EstimatedInstanceCount

**Type:** CSOM Int64

**Accessibility:** Read Only

Specifies the number of expected external items associated with this external content type.

Its value MUST be equal to or greater than 0.

###### 3.2.5.178.1.1.2 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the metadata object.

It MUST NOT be NULL. It MUST NOT be empty.

###### 3.2.5.178.1.1.3 Namespace

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the namespace of the given **Entity** (section [3.2.5.178](#)).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.178.1.2 ObjectPath Properties

None.

### 3.2.5.178.2 Methods

#### 3.2.5.178.2.1 Scalar Methods

##### 3.2.5.178.2.1.1 GetIdentifierCount

**Return Type:** CSOM Int32

Specifies the number of identifiers in an external content type.

**Parameters:** None

#### 3.2.5.178.2.2 ObjectPath Methods

##### 3.2.5.178.2.2.1 Create

**Return Type:** Microsoft.BusinessData.Runtime.EntityIdentity

Creates an external item.

Use this method to create external items in the external system by specifying the values required for creation. The values do not necessarily correspond to fields of an external item.

The method returns the **EntityIdentity** (section [3.2.5.165](#)) that corresponds to the external item that was created.

The **EntityFieldValueDictionary** (section [3.2.5.164](#)) instance provided as an input to this method is created from a **View** that corresponds to a **MethodInstance** of type "Creator".

**Parameters:**

*fieldValues:* The parameters of the **Create** method.

Type: Microsoft.BusinessData.Runtime.EntityFieldValueDictionary

It MUST NOT be NULL.

*lobSystemInstance:* The line-of-business (LOB) system instance.

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to create an

Error Code	Error Type Name	Condition
		external item.
-1	Microsoft.BusinessData.MetadataModel.InvalidMetadataObjectException	The <b>Create</b> method does not have a return value. A proper <b>EntityIdentity</b> object must be supplied for create function.
-2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b>
-1	System.InvalidOperationException	<b>Creator</b> MethodInstances may not return collections.

### 3.2.5.178.2.2.2 FindSpecific

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the identity by calling the given SpecificFindermethod.

**Parameters:**

*identity:* The given identity.

Type: Microsoft.BusinessData.Runtime.EntityIdentity

It MUST NOT be NULL.

*specificFinderName:* SpecificFinder method name.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstance:* The line-of-business (LOB) system instance.

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to read an external item.



Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	There is no SpecificFinder method available with the given name.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	An external item with the given identity does not exist.
-2147467261	System.ArgumentNullException	Atleast one of the parameters is <b>null</b>

### 3.2.5.178.2.2.3 FindSpecificByBdcId

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the Business Data Connectivity (BDC) identity by calling the given SpecificFinder method.

**Parameters:**

*bdcIdentity:* Unique identity string for external item

Type: CSOM String

BdcIdentity is a unique identity string generated by BCS from the entity identifiers to uniquely identify an external item.

It MUST NOT be NULL. It MUST NOT be empty.

*specificFinderName:* Name of the SpecificFinder method.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstance:* The line-of-business (LOB) system instance

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to read an external item.

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	There is no SpecificFinder available with the given name.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	An external item with the given id does not exist.
-2147467261	System.ArgumentNullException	The specified <i>bdcIdentity</i> is <b>null</b> or empty or any one of <i>SpecificFinder</i> or <i>lobSystemInstance</i> is <b>null</b> .

### 3.2.5.178.2.2.4 FindSpecificDefault

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the identity by calling the default SpecificFinder method.

**Parameters:**

*identity*: The given **EntityIdentity** (section [3.2.5.165](#)).

Type: Microsoft.BusinessData.Runtime.EntityIdentity

It MUST NOT be NULL.

*lobSystemInstance*: The line-of-business (LOB) system instance.

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to read an external item.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	An external item with the given identity does not exist.
-2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b>

### 3.2.5.178.2.2.5 FindSpecificDefaultByBdcId

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the Business Data Connectivity (BDC) identity by calling the default SpecificFinder method.

**Parameters:**

*bdcIdentity*: The given Business Data Connectivity (BDC)identity.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstance*: The external system instance.

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to read an external item.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	An external item with the given identifier does not exist.
-2147467261	System.ArgumentNullException	The specified BDC identity is <b>null</b> or empty or line-of-business (LOB) system is <b>null</b>

**3.2.5.178.2.2.6 GetCreatorView**

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Gets the View for the given Creator method instance.

**Parameters:**

*methodName*: MethodInstance Name

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	View with the given MethodInstance name cannot be found.

Error Code	Error Type Name	Condition
-2147467261	System.ArgumentNullException	MethodInstance name is <b>null</b> .

### 3.2.5.178.2.2.7 GetDefaultSpecificFinderView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Gets the View for the default SpecificFinder method.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	Default SpecificFinder cannot be found.

### 3.2.5.178.2.2.8 GetIdentifiers

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.EntityIdentifierCollection

Specifies the identifier parameters of an external content type.

Returns a read only collection of identifiers.

**Parameters:** None

### 3.2.5.178.2.2.9 GetLobSystem

**Return Type:** Microsoft.BusinessData.MetadataModel.LobSystem

Specifies line-of-business (LOB) system for an external content type.

**Parameters:** None

### 3.2.5.178.2.2.10 GetSpecificFinderView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Specifies the View for the given SpecificFinder method.

**Parameters:**

*specificFinderName*: The name of the SpecificFinder.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	View with the given method name cannot be found.
-2147467261	System.ArgumentNullException	SpecificFinder name is <b>null</b>

### 3.2.5.178.2.2.11 GetUpdaterView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Specifies the View for the given **Updater** method.

**Parameters:**

*updaterName:* Updater name.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	View with the given method name cannot be found.
-2147467261	System.ArgumentNullException	Updater name is <b>null</b>

### 3.2.5.178.2.2.12 FindAssociated

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.EntityInstanceCollection

Specifies the external items that are associated with a source external item using an association that is filtered by specified criteria.

**Parameters:**

*entityInstance:* Source Business Data Connectivity (BDC) external item.

Type: Microsoft.BusinessData.Runtime.EntityInstance

It MUST NOT be NULL.

*associationName:* The association name to use.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*filterList*: The filters to apply.

Type: Microsoft.BusinessData.MetadataModel.Collections.FilterCollection

It MUST NOT be NULL.

*lobSystemInstance*: The line-of-business (LOB) system instance.

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to read an external item.
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	There is no association available with the given name.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	An external item with the given identifier does not exist.
-2147467261	System.ArgumentNullException	The specified BDC identity is <b>null</b> , empty or either of <i>SpecificFinder</i> or <i>lobSystemInstance</i> is <b>null</b> .

**3.2.5.178.2.2.13 FindFiltered**

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.EntityInstanceCollection

Calls the given *SpecificFinder* method with the specified filters to retrieve a collection of items from the external Business Data Connectivity (BDC) system.

A protocol client SHOULD use a set of filters to narrow and constrain the set of items returned. Set filters using **FilterCollection** (section [3.2.5.202](#)) to filter the data returned by the external system.

**Parameters:**

*filterList*: The filters to apply.

Type: Microsoft.BusinessData.MetadataModel.Collections.FilterCollection

It MUST NOT be NULL.

*nameOfFinder*: The name of the *SpecificFinder*.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstance*: The line-of-business (LOB) system instance

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to read an external item.
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	There is no finder available with the given name.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	An external item with the given identifier does not exist.
-2147467261	System.ArgumentNullException	The specified BDC identity is <b>null</b> , empty or either <i>SpecificFinder</i> or <i>lobSystemInstance</i> is <b>null</b> .

**3.2.5.178.2.2.14 GetAssociationView**

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Specifies the View of the association.

**Parameters:**

*associationName*: The name of the association.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	There is no association available with the given name.

Error Code	Error Type Name	Condition
- 2147467261	System.ArgumentNullException	The specified bdcIdentity is <b>null</b> , empty or any one of SpecificFinder name or line-of-business (LOB) system instance is <b>null</b>

### 3.2.5.178.2.2.15 GetFilters

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.FilterCollection

Specifies the list of filters defined for a given MethodInstance name.

**Parameters:**

*methodInstanceName*: MethodInstance name.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	MethodInstance with the given name cannot be found.
- 2147467261	System.ArgumentNullException	The specified bdcIdentity is null, empty or either SpecificFinder name or line-of-business (LOB) system instance is <b>null</b> .

### 3.2.5.178.2.2.16 Execute

**Return Type:** Microsoft.BusinessData.MetadataModel.MethodExecutionResult

Runs the given method instance against an external line-of-business (LOB) system instance with the given parameters.

**Parameters:**

*methodInstanceName*: The MethodInstance name.



Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstance*: The line-of-business (LOB) system instance.

Type: Microsoft.BusinessData.MetadataModel.LobSystemInstance

It MUST NOT be NULL.

*inputParams*: The arguments to pass to the external system. The *inputParams* array MUST have as many elements as there are parameters in the Business Data Connectivity (BDC) model for that method.

Type: System.Object[]

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to read an external item.
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	There is no MethodInstance available with the given name.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	An external item with the given input does not exist.
-2147024809	System.ArgumentException	Set of parameters provided do not exactly match what is defined by the metadata or execution result produces a collection as per BDC model but not enumerable.
-2147467261	System.ArgumentNullException	One or more specified arguments are either <b>null</b> or empty

### 3.2.5.179 Microsoft.BusinessData.MetadataModel.EntityIdentifier

**TypeId:** {86B6671B-E6E1-4F99-AA9D-D7A3FFBD6C16}

**ShortName:** SP.BusinessData.EntityIdentifier

Defines the properties of an external content type identifier. [<180>](#)

#### 3.2.5.179.1 Properties

##### 3.2.5.179.1.1 Scalar Properties

###### 3.2.5.179.1.1.1 IdentifierType

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the .Net type of this **EntityIdentifier** (section [3.2.5.179](#)) as a string value.

###### 3.2.5.179.1.1.2 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the **EntityIdentifier** (section [3.2.5.179](#)).

###### 3.2.5.179.1.2 ObjectPath Properties

None.

#### 3.2.5.179.2 Methods

##### 3.2.5.179.2.1 Scalar Methods

###### 3.2.5.179.2.1.1 ContainsLocalizedDisplayName

**Return Type:** CSOM Boolean

Specifies whether this **EntityIdentifier** (section [3.2.5.179](#)) contains a localized display name.

**Parameters:** None

###### 3.2.5.179.2.1.2 GetDefaultDisplayName

**Return Type:** CSOM String

Specifies the default display name of this **EntityIdentifier** (section [3.2.5.179](#)).

**Parameters:** None

###### 3.2.5.179.2.1.3 GetLocalizedDisplayName

**Return Type:** CSOM String

Specifies the localized display name of this **EntityIdentifier** (section [3.2.5.179](#)).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.InvalidMetadataObjectException	Localized display name for current locale does not exist.

### 3.2.5.179.2.2 ObjectPath Methods

None.

### 3.2.5.180 Microsoft.BusinessData.MetadataModel.LobSystem

**TypeId:** {84EFF1C0-D351-441F-A57F-F73A0785CCEC}

**ShortName:** SP.BusinessData.LobSystem

Represents an external line-of-business (LOB) system. [<181>](#)

#### 3.2.5.180.1 Properties

##### 3.2.5.180.1.1 Scalar Properties

###### 3.2.5.180.1.1.1 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the external **LobSystem** (section [3.2.5.180](#)).

##### 3.2.5.180.1.2 ObjectPath Properties

None.

#### 3.2.5.180.2 Methods

##### 3.2.5.180.2.1 Scalar Methods

None.

##### 3.2.5.180.2.2 ObjectPath Methods

###### 3.2.5.180.2.2.1 GetLobSystemInstances

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.LobSystemInstanceCollection

Specifies the instances of this external **LobSystem** (section [3.2.5.180](#)).

**Parameters:** None

### **3.2.5.181 Microsoft.BusinessData.MetadataModel.LobSystemInstance**

**TypeId:** {A59E617A-FED3-4C3F-8B2C-BB11EDBF7827}

**ShortName:** SP.BusinessData.LobSystemInstance

Specifies an instance of an external line-of-business (LOB) system. [<182>](#)

#### **3.2.5.181.1 Properties**

##### **3.2.5.181.1.1 Scalar Properties**

###### **3.2.5.181.1.1.1 Name**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the external line-of-business (LOB) system instance.

##### **3.2.5.181.1.2 ObjectPath Properties**

None.

##### **3.2.5.181.2 Methods**

###### **3.2.5.181.2.1 Scalar Methods**

None.

###### **3.2.5.181.2.2 ObjectPath Methods**

None.

### **3.2.5.182 Microsoft.BusinessData.MetadataModel.TypeDescriptor**

**TypeId:** {D981A4B4-5FBD-4C46-9101-5C5E67D4AB3B}

**ShortName:** SP.BusinessData.TypeDescriptor

Describes a data structure in an external system. [<183>](#) It represents the data type for a method parameter in the Business Data Connectivity (BDC) MetadataCatalog.

#### **3.2.5.182.1 Properties**

##### **3.2.5.182.1.1 Scalar Properties**

###### **3.2.5.182.1.1.1 ContainsReadOnly**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether this **TypeDescriptor** or one of its children represent a read-only data structure.

#### **3.2.5.182.1.1.2 IsCollection**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the described type represents a collection data structure.

#### **3.2.5.182.1.1.3 IsReadOnly**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether this TypeDescriptor represents a read-only data structure.

#### **3.2.5.182.1.1.4 Name**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of this TypeDescriptor metadata object.

#### **3.2.5.182.1.1.5 TypeName**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the data type represented by this TypeDescriptor.

#### **3.2.5.182.1.2 ObjectPath Properties**

None.

#### **3.2.5.182.2 Methods**

##### **3.2.5.182.2.1 Scalar Methods**

###### **3.2.5.182.2.1.1 ContainsLocalizedDisplayName**

**Return Type:** CSOM Boolean

Specifies whether this TypeDescriptor contains a localized display name.

**Parameters:** None

###### **3.2.5.182.2.1.2 GetDefaultDisplayName**

**Return Type:** CSOM String

Specifies the default display name of this TypeDescriptor.

**Parameters:** None

### 3.2.5.182.2.1.3 GetLocalizedDisplayName

**Return Type:** CSOM String

Specifies the localized display name of this TypeDescriptor.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.InvalidMetadataObjectException	Localized display name for the current locale does not exist.

### 3.2.5.182.2.1.4 IsLeaf

**Return Type:** CSOM Boolean

Specifies whether this TypeDescriptor contains any child TypeDescriptors.

**Parameters:** None

### 3.2.5.182.2.1.5 IsRoot

**Return Type:** CSOM Boolean

Specifies whether this TypeDescriptor represents the root of a data structure.

**Parameters:** None

## 3.2.5.182.2.2 ObjectPath Methods

### 3.2.5.182.2.2.1 GetChildTypeDescriptors

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.TypeDescriptorCollection

Specifies the TypeDescriptors that correspond to the fields of the represented structure.

**Parameters:** None

### 3.2.5.182.2.2.2 GetParentTypeDescriptor

**Return Type:** Microsoft.BusinessData.MetadataModel.TypeDescriptor

Returns the TypeDescriptor that contains this TypeDescriptor.

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	This TypeDescriptor represents the root of a data structure.

### 3.2.5.183 Microsoft.SharePoint.Client.AppCatalog

**TypeId:** {79CDEE9F-257E-423B-9E94-E6404659F7EA}

**ShortName:** SP.AppCatalog

Provides methods for retrieving installed SharePoint App Instances. [<184>](#) All methods in SP.AppCatalog are static.

#### 3.2.5.183.1 Properties

##### 3.2.5.183.1.1 Scalar Properties

None.

##### 3.2.5.183.1.2 ObjectPath Properties

None.

#### 3.2.5.183.2 Methods

##### 3.2.5.183.2.1 Scalar Methods

None.

##### 3.2.5.183.2.2 ObjectPath Methods

None.

### 3.2.5.184 Microsoft.SharePoint.Client.AppInstance

**TypeId:** {211A55DF-058B-4917-AC93-2B5E08B1A9FD}

**ShortName:** SP.AppInstance

Specifies a SharePoint App Instance. [<185>](#)

#### 3.2.5.184.1 Properties

##### 3.2.5.184.1.1 Scalar Properties

###### 3.2.5.184.1.1.1 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the SharePoint App Instance Id of the SharePoint App Instance.

#### **3.2.5.184.1.1.2 AppWebFullUrl**

**Type:** CSOM String

**Accessibility:** Read Only

The absolute URL of the site (2) created during the installation of this SharePoint App Instance.

#### **3.2.5.184.1.1.3 InError**

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the SharePoint App Instance is in an error state. An error state means that a job to has to be retried or aborted for the instance to continue its current lifecycle operation.

#### **3.2.5.184.1.1.4 RemoteAppUrl**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the base URL of the remote system deployed during the installation of this SharePoint App Instance.

#### **3.2.5.184.1.1.5 SiteId**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the site collection that contains the site (2) where this SharePoint App Instance is installed.

#### **3.2.5.184.1.1.6 Status**

**Type:** Microsoft.SharePoint.Administration.SPAppInstanceStatus

**Accessibility:** Read Only

The status of the app instance as defined in section [3.2.5.221](#).

#### **3.2.5.184.1.1.7 Title**

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the title of the SharePoint App Instance. The title can change with use, and should not be used as an identifier. Use **Id** (section [3.2.5.184.1.1.1](#)) instead.

#### **3.2.5.184.1.1.8 WebId**

**Type:** CSOM GUID



**Accessibility:** Read Only

Specifies the identifier of the site (2) where this SharePoint App Instance is installed.

### 3.2.5.184.1.1.9 StartPage

**Type:** CSOM String

**Accessibility:** Read Only

The start page URL of the app instance.

### 3.2.5.184.1.2 ObjectPath Properties

None.

### 3.2.5.184.2 Methods

#### 3.2.5.184.2.1 Scalar Methods

##### 3.2.5.184.2.1.1 Uninstall

**Return Type:** CSOM GUID

Uninstalls the SharePoint App Instance.

**Parameters:** None

##### 3.2.5.184.2.2 ObjectPath Methods

None.

### 3.2.5.185 Microsoft.SharePoint.Client.ChangeLogItemQuery

**TypeId:** {820ED5A1-95F7-493B-88FA-266E9DB920AF}

**ShortName:** SP.ChangeLogItemQuery

Specifies an object that is used as the input parameter of **GetListItemChangesSinceToken** (section [3.2.5.79.2.1.7](#)) method. <186>

#### 3.2.5.185.1 Properties

##### 3.2.5.185.1.1 Scalar Properties

###### 3.2.5.185.1.1.1 ChangeToken

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a string that contains the change token for the request.

### 3.2.5.185.1.1.2 Contains

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a string representation of the **XML element** that defines custom filtering for the query. See section 2.2.4.3 in [\[MS-LISTSWS\]](#).

### 3.2.5.185.1.1.3 Query

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies which records from the list (1) are to be returned and the order in which they will be returned. See section 2.2 in [\[MS-WSSCAML\]](#).

### 3.2.5.185.1.1.4 QueryOptions

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies various options for modifying the **Query** (section [3.2.5.185.1.1.3](#)). See section 2.2.4.4 in [\[MS-LISTSWS\]](#).

### 3.2.5.185.1.1.5 ViewName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the GUID for the view.

### 3.2.5.185.1.2 ObjectPath Properties

None.

## 3.2.5.186 Microsoft.SharePoint.Client.FieldCreationInformation

**TypeId:** {46C21C03-8E93-4E5A-BF90-228366397C9A}

**ShortName:** SP.FieldCreationInformation

Specifies the metadata of a field (2) that is specified in [\[MS-WSSTS\]](#) section 2.1.2.9.<187>

### 3.2.5.186.1 Properties

#### 3.2.5.186.1.1 Scalar Properties

##### 3.2.5.186.1.1.1 Choices

**Type:** CSOM Array

**Accessibility:** Read/Write

Specifies values that are available for selection in the field (2).

#### **3.2.5.186.1.1.2 FieldTypeKind**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the type of the field (2).

#### **3.2.5.186.1.1.3 IsCompactName**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

This value is **true** to compact the field (2) name to eight characters; otherwise, **false**.

#### **3.2.5.186.1.1.4 LookupListId**

**Type:** CSOM GUID

**Accessibility:** Read/Write

A CSOM GUID that specifies the target list for the lookup field (2).

#### **3.2.5.186.1.1.5 LookupWebId**

**Type:** CSOM GUID

**Accessibility:** Read/Write

Specifies the identifier of the site (2) that contains the list (1) that is the source for the field (2) value.

#### **3.2.5.186.1.1.6 Required**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the field (2) requires a value. If the field (2) requires a value, this value MUST be set to "true". Otherwise, it MUST be set to "false".

#### **3.2.5.186.1.1.7 Title**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the display name of the field (2).

It MUST NOT be NULL.

#### **3.2.5.186.1.2 ObjectPath Properties**

None.

### 3.2.5.187 Microsoft.SharePoint.Client.FieldGeolocation

**TypeId:** {D5A367F2-3B74-4984-AB50-9A700883C90B}

**ShortName:** SP.FieldGeolocation

Specifies a field (2) that contains geographical location values. <188>

#### 3.2.5.187.1 Properties

##### 3.2.5.187.1.1 Scalar Properties

###### 3.2.5.187.1.1.1 CanBeDeleted

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#).

###### 3.2.5.187.1.1.2 DefaultValue

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

###### 3.2.5.187.1.1.3 Description

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#).

###### 3.2.5.187.1.1.4 Direction

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a value other than "none," and the list

Error Code	Error Type Name	Condition
		(1) is an external list.

### 3.2.5.187.1.1.5 EnforceUniqueValues

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list (1) has an external data source and trying to set UCC to <b>true</b> .

### 3.2.5.187.1.1.6 FieldTypeKind

**Type:** Microsoft.SharePoint.Client.FieldType

**Accessibility:** Read/Write

Specifies the type of the field (2).

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Adding unique column constraints to the field (2) where the list (1) is an external list.

### 3.2.5.187.1.1.7 Filterable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#).

### 3.2.5.187.1.1.8 FromBaseType

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the field (2) derives from a base field type.

### 3.2.5.187.1.1.9 Group

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 128.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	This field (2) belongs to a list (1) that has an external data source (1).

### 3.2.5.187.1.1.10 Hidden

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#).

### 3.2.5.187.1.1.11 Id

**Type:** CSOM GUID

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#).

### 3.2.5.187.1.1.12 InternalName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.187.1.1.13 ReadOnlyField

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.187.1.1.14 Required

**Type:** CSOM Boolean

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	This field (2) belongs to a list (1) that has an external data source and <b>Required</b> is set to <b>true</b> .

### 3.2.5.187.1.1.15 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type as defined in [\[MS-WSSFO3\]](#) section 2.2.7.3.3

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed to a non-NULL or non-empty value, and the list (1) is an external list.

### 3.2.5.187.1.1.16 Scope

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#).

### 3.2.5.187.1.1.17 Sealed

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#).

### 3.2.5.187.1.1.18 Sortable

**Type:** CSOM Boolean

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#).

### 3.2.5.187.1.1.19 StaticName

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#).

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.187.1.1.20 Title

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#).

### 3.2.5.187.1.1.21 TypeAsString

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#).

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Value is changed, and the list (1) is an external list.

### 3.2.5.187.1.1.22 TypeDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#).

It MUST NOT be NULL. It MUST NOT be empty.



### 3.2.5.187.1.1.23 TypeShortDescription

**Type:** CSOM String

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#).

It MUST NOT be NULL. It MUST NOT be empty.

### 3.2.5.187.1.1.24 ValidationFormula

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#).

### 3.2.5.187.1.1.25 ValidationMessage

**Type:** CSOM String

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#).

Its length MUST be equal to or less than 1024.

## 3.2.5.187.1.2 ObjectPath Properties

None.

## 3.2.5.187.2 Methods

### 3.2.5.187.2.1 Scalar Methods

#### 3.2.5.187.2.1.1 DeleteObject

**Return Type:** None

Deletes the field (2) from the list (1), from the site (2), or from the content types within the list (1).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
-1	System.InvalidOperationException	CanBeDeleted is false.

#### 3.2.5.187.2.1.2 Update

**Return Type:** None

Commits changed properties of the field (2).

**Parameters:** None

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is <b>true</b> .
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is <b>true</b> .

### 3.2.5.187.2.1.3 UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the field (2) and propagates changes to all lists (1) that use the field (2).

**Parameters:**

*pushChangesToLists*: Specifies whether to propagate changes to all lists (1) that use the field (2).

Type: CSOM Boolean

**Exceptions:**

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Type of the field (2) is changed for an indexed field. The field type of indexed fields cannot be changed.
- 2130246238	Microsoft.SharePoint.SPException	Field (2) is set to not be an indexed field, and <b>EnforceUniqueValues</b> is <b>true</b> .
- 2130246236	Microsoft.SharePoint.SPException	Type of the field (2) is being changed and <b>EnforceUniqueValues</b> of the field (2) is <b>true</b> .

### 3.2.5.187.2.1.4 ValidateSetValue

**Return Type:** None

Validates and sets the value of the field (2) for the list item based on an implementation specific transformation of the value.

**Parameters:**

*item*: Specifies the list item to be updated with the new value.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

*value*: Specifies the new value for the field (2).

Type: CSOM String

### 3.2.5.187.2.2 ObjectPath Methods

None.

### 3.2.5.188 Microsoft.SharePoint.Client.FieldGeolocationValue

**TypeId**: {97650AFF-7E7B-44BE-AC6E-D559F7F897A2}

**ShortName**: SP.FieldGeolocationValue

Specifies altitude, latitude, longitude and measure values for **FieldGeolocation** (section [3.2.5.187](#)). <189>

#### 3.2.5.188.1 Properties

##### 3.2.5.188.1.1 Scalar Properties

###### 3.2.5.188.1.1.1 Altitude

**Type**: CSOM Double

**Accessibility**: Read/Write

Specifies the altitude value for **FieldGeolocation** (section [3.2.5.187](#)). This is a user defined value.

###### 3.2.5.188.1.1.2 Latitude

**Type**: CSOM Double

**Accessibility**: Read/Write

Specifies the latitude value for **FieldGeolocation** (section [3.2.5.187](#)).

Latitude value MUST be between -90 and +90.

###### 3.2.5.188.1.1.3 Longitude

**Type**: CSOM Double

**Accessibility**: Read/Write

Specifies the longitude value for **FieldGeolocation** (section [3.2.5.187](#)).

Longitude value MUST be between -180 and +180.

###### 3.2.5.188.1.1.4 Measure

**Type**: CSOM Double

**Accessibility**: Read/Write

Specifies the measure value for **FieldGeolocation** (section [3.2.5.187](#)). This is a user defined value.

### 3.2.5.188.1.2 ObjectPath Properties

None.

### 3.2.5.189 Microsoft.SharePoint.Client.Move

**TypeId:** {0E46114D-13EA-4DC1-8EA9-153DF305B62F}

**ShortName:** SP.Move

Provides static methods for moving documents to a specified destination. [<190>](#) The destination can be within the same site collection, between different site collections, or between different farms. The following is a list of exceptions thrown from the move operation:

#### Exceptions:

Error Code	Error Type Name	Condition
	System.Exception	Unexpected exceptions.
	System.ArgumentException	Argument exceptions.
	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
- 2130575154	Microsoft.SharePoint.SPException	The user does not have the required move access rights to the source or destination lists.
- 2130575158	Microsoft.SharePoint.SPException	The destination list is invalid.
- 2130575162	Microsoft.SharePoint.SPException	Can't move from source to the destination.
- 2130575198	Microsoft.SharePoint.SPException	Move not supported at the destination
- 2130575220	Microsoft.SharePoint.SPException	Invalid source.
- 2130575221	Microsoft.SharePoint.SPException	Invalid destination.
- 2130575257	Microsoft.SharePoint.SPException	Source already exists at the destination and the overwrite parameter is false.
- 2130575328	Microsoft.SharePoint.SPException	Invalid URL
- 2130575344	Microsoft.SharePoint.SPException	The source or destination is not a document list.
- 2130575350	Microsoft.SharePoint.SPException	Invalid argument.
- 2147024846	Microsoft.SharePoint.SPException	Document type is not supported for move.
- 2147024893	Microsoft.SharePoint.SPException	Invalid destination folder.

### 3.2.5.189.1 Properties

#### 3.2.5.189.1.1 Scalar Properties

None.

#### 3.2.5.189.1.2 ObjectPath Properties

None.

### 3.2.5.189.2 Methods

#### 3.2.5.189.2.1 Scalar Methods

##### 3.2.5.189.2.1.1 CopyDocument

This method is a static CSOM method.

**Return Type:** None

This method copies a **document stream** to the specified destination. Sub folders **MUST** be created if they don't exist at the destination. If the method fails, an exception **MUST** be thrown.

**Parameters:**

*source*: A string that specifies the full URL of a document to be copied.

Type: CSOM String

*docStream*: A document file stream to be copied.

Type: CSOM Stream

*destination*: A string that specifies the full URL of the copy destination.

Type: CSOM String

*sourceBaseFolder*: A string that specifies the full source URL of the base folder of a document to be copied.

Type: CSOM String

*overwrite*: A boolean that specifies if the copy can overwrite an existing destination document. True for overwriting destination file with the same name.

Type: CSOM Boolean

##### 3.2.5.189.2.1.2 GetDocumentUrls

This method is a static CSOM method.

**Return Type:** CSOM Array

Returns full document and folder URLs in an array of strings. Document URLs returned **MUST** include documents in folders and sub-folders if the query contains folder items. The returned URLs **MUST** not include documents not supported for move. If the method fails, an exception **MUST** be thrown.

**Parameters:**

*listID*: A GUID that specifies the document list (1) identifier.

Type: CSOM GUID

*itemIDs*: An array of integers representing selected item identifiers of the document list (1).

Type: System.Int32[]

**3.2.5.189.2.1.3 IsValidMoveDestination**

This method is a static CSOM method.

**Return Type:** CSOM Boolean

Verifies if a destination URL is valid. A destination URL is valid if the destination exists and the user has the move required access rights to it. If the method fails or the destination is invalid, an exception MUST be thrown.

**Parameters:**

*destination*: A string that specifies the full URL of a move destination.

Type: CSOM String

*isFolderOnly*: A Boolean that specifies if the validation is for a folder destination only. If this value is **true**, the destination is valid if the destination folder exists. If this value is **false**, the destination is not valid because either the destination folder or file already exists.

Type: CSOM Boolean

**3.2.5.189.2.1.4 MoveDocument**

This method is a static CSOM method.

**Return Type:** None

Moves a document to the specified destination. The destination can be within the same site collection, in a different site collection, or in a different farm. If the method fails, an exception MUST be thrown.

**Parameters:**

*source*: A string that specifies the full URL of a document to be moved.

Type: CSOM String

*destination*: A string that specifies the full URL of the move destination.

Type: CSOM String

*sourceBaseFolder*: A string that specifies the full source URL of the base folder of a document to be moved.

Type: CSOM String

*overwrite*: A boolean that specifies if the move can overwrite an existing destination document. True for overwriting destination file with the same name.

Type: CSOM Boolean

### 3.2.5.189.2.1.5 CreateDestinationFolder

This method is a static CSOM method.

**Return Type:** CSOM String

Creates a new destination folder under the specified base folder and returns the full URL of the newly created destination folder. An exception MUST be thrown if the creation fails.

Verifies if a destination URL is valid. A destination URL is valid if the destination exists and the user has the move required access rights to it. If the method fails, an exception MUST be thrown.

**Parameters:**

*baseFolder*: A full URL string specifies a destination base folder.

Type: CSOM String

*newFolderName*: A string specifying the name of a new folder to be created.

Type: CSOM String

### 3.2.5.189.2.1.6 GetDestinations

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.MoveDestinationCollection

Returns move destinations and paging information in the **SP.MoveDestinationCollection** (section [3.2.5.210](#)) object. In the destination list, a destination site (2) MUST be listed first followed by the document libraries and library folders of the site (2). For a site URL, the destination name is the **site title**. For a destination folder URL, the destination name is the folder name. If the method fails, an exception MUST be thrown.

**Parameters:**

*site*: A full URL string specifies a web site or document library folder.

Type: CSOM String

*isSite*: A boolean value. **true** indicates a site URL; **false** indicates a document library folder URL.

Type: CSOM Boolean

*pageSize*: A limit for the number of destination items in the query. MUST be less than or equal to 50.

Type: CSOM Int32

*pagePosition*: A start position returned from a previous query if any.

Type: Microsoft.SharePoint.Client.ListItemCollectionPosition

### 3.2.5.189.2.2 ObjectPath Methods

None.

### 3.2.5.190 Microsoft.SharePoint.Client.Sharing.DocumentSharingManager

**TypeId:** {10C23C0E-CEAD-4F15-9DEB-A0F1D7507495}

**ShortName:** SP.Sharing.DocumentSharingManager

Specifies document sharing related methods. [<191>](#)

#### 3.2.5.190.1 Properties

##### 3.2.5.190.1.1 Scalar Properties

None.

##### 3.2.5.190.1.2 ObjectPath Properties

None.

#### 3.2.5.190.2 Methods

##### 3.2.5.190.2.1 Scalar Methods

###### 3.2.5.190.2.1.1 UpdateDocumentSharingInfo

This method is a static CSOM method.

**Return Type:** CSOM Array

This method allows a caller with the 'ManagePermission' permission to update sharing information on a document to enable document sharing with a set of users. It returns an array of **UserSharingResult** (section 3.2.5.196) elements where each element contains the sharing status for each user.

**Parameters:**

*resourceAddress*: a URL that points to a securable object, which can be a document, folder or the root folder of a document library.

Type: CSOM String

*userRoleAssignments*: A list of recipients and roles to assign to the securable object pointed to by the *resourceAddress* parameter.

Type: CSOM Array

*sendServerManagedNotification*: A Boolean flag to indicate whether or not to generate an email notification to each recipient in the "userRoleAssignments" array after the document update is completed successfully. If this value is **true**, the protocol server will send an email notification if an email server is configured, and if this value is **false**, no email notification will be sent.

Type: CSOM Boolean



*customMessage*: A custom message to be included in the email notification.

Type: CSOM String

*includeAnonymousLinksInNotification*: A Boolean flag that indicates whether or not to include anonymous access links in the email notification to each recipient in the "userRoleAssignments" array after the document update is completed successfully. If the value is **true**, the protocol server will include an anonymous access link in the email notification, and if the value is **false**, no link will be included.

Type: CSOM Boolean

### 3.2.5.190.2.2 ObjectPath Methods

#### 3.2.5.190.2.2.1 GetRoleDefinition

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.RoleDefinition

This method returns a role definition in the current web that is associated with a given **Role** (section [3.2.5.191](#)) value.

**Parameters:**

*role*: A **Role** value for which to obtain the associated role definition object.

Type: Microsoft.SharePoint.Client.Sharing.Role

### 3.2.5.191 Microsoft.SharePoint.Client.Sharing.Role

**ShortName:** SP.Sharing.Role

**Flag:** false

Specifies a set of abstract roles that a user can be assigned to share a securable object in a document library. [<192>](#)

#### 3.2.5.191.1 Field Values

##### 3.2.5.191.1.1 None

**Value:** 0

The user does not have a permission to share a securable object.

##### 3.2.5.191.1.2 View

**Value:** 1

The user can only read a securable object.

##### 3.2.5.191.1.3 Edit

**Value:** 2

The user can edit or read a securable object, but cannot delete it.

#### 3.2.5.191.1.4 Owner

**Value:** 3

The user is an owner of a securable object and can manage permissions, and edit, read or delete the object.

#### 3.2.5.192 Microsoft.SharePoint.Client.Sharing.UserRoleAssignment

**TypeId:** {74485063-E2B5-424B-950C-4B62E816E31F}

**ShortName:** SP.Sharing.UserRoleAssignment

Specifies a user and **role** that is associated with the user. <193>

##### 3.2.5.192.1 Properties

###### 3.2.5.192.1.1 Scalar Properties

###### 3.2.5.192.1.1.1 Role

**Type:** Microsoft.SharePoint.Client.Sharing.Role

**Accessibility:** Read/Write

Specifies a **Role** (section [3.2.5.191](#)).

Specifies a role that is assigned to a user.

###### 3.2.5.192.1.1.2 UserId

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the identifier of a user, which can be in the format of an email address or a login identifier.

###### 3.2.5.192.1.2 ObjectPath Properties

None.

#### 3.2.5.193 Microsoft.SharePoint.Client.Sharing.UserSharingResult

**TypeId:** {782142B7-1BB8-495F-8A60-9940982DE38E}

**ShortName:** SP.Sharing.UserSharingResult

Specifies a sharing result for an individual user that method **UpdateDocumentSharingInfo** (section [3.2.5.190.2.1.1](#)) returns. <194>

### 3.2.5.193.1 Properties

#### 3.2.5.193.1.1 Scalar Properties

##### 3.2.5.193.1.1.1 AllowedRoles

**Type:** System.Collections.Generic.IEnumerable<Microsoft.SharePoint.Client.Sharing.Role>

**Accessibility:** Read Only

Specifies a set of roles that can be assigned to the user.

##### 3.2.5.193.1.1.2 CurrentRole

**Type:** Microsoft.SharePoint.Client.Sharing.Role

**Accessibility:** Read Only

Specifies the role that the user is currently assigned to.

##### 3.2.5.193.1.1.3 IsUserKnown

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the user is known to the server. If **true**, the user is known to the server; if **false**, user is unknown.

##### 3.2.5.193.1.1.4 Status

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the sharing update for the user was completed successfully. If **true**, the sharing update completed successfully for the user; if **false**, the sharing update failed for the user.

##### 3.2.5.193.1.1.5 User

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the identifier of a user.

##### 3.2.5.193.1.1.6 Message

**Type:** CSOM String

**Accessibility:** Read Only

Specifies a message string that explains the reason when the **Status** (section [3.2.5.193.1.1.4](#)) property is FALSE.

### 3.2.5.193.1.2 ObjectPath Properties

None.

### 3.2.5.194 Microsoft.SharePoint.Client.WebInfoCreationInformation

**TypeId:** {5143CF01-79B3-425C-96B2-6E8B34A45D03}

**ShortName:** SP.WebInfoCreationInformation

Specifies metadata about a site (2). [.<195>](#)

#### 3.2.5.194.1 Properties

##### 3.2.5.194.1.1 Scalar Properties

###### 3.2.5.194.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description for the site (2).

###### 3.2.5.194.1.1.2 Language

**Type:** CSOM UInt32

**Accessibility:** Read/Write

Specifies the language code identifier (LCID) for the language that is used on the site (2).

###### 3.2.5.194.1.1.3 Title

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the title for the site (2).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

###### 3.2.5.194.1.1.4 Url

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL of the site (2).

It MUST NOT be NULL.

###### 3.2.5.194.1.1.5 UseUniquePermissions

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the site (2) has different permissions than its parent.

### 3.2.5.194.1.1.6 WebTemplate

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the site template that is used to create the site (2).

### 3.2.5.194.1.2 ObjectPath Properties

None.

### 3.2.5.195 Microsoft.SharePoint.Client.WebInformation

**TypeId:** {F847686B-8E42-401C-88E4-B5ED4261A788}

**ShortName:** SP.WebInformation

Specifies metadata about a site (2). [<196>](#)

#### 3.2.5.195.1 Properties

##### 3.2.5.195.1.1 Scalar Properties

###### 3.2.5.195.1.1.1 Created

**Type:** CSOM DateTime

**Accessibility:** Read/Write

Specifies when the site (2) was created.

###### 3.2.5.195.1.1.2 Description

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the description for the site (2).

###### 3.2.5.195.1.1.3 Id

**Type:** CSOM GUID

**Accessibility:** Read/Write

Specifies the site identifier for the site (2).

###### 3.2.5.195.1.1.4 Language

**Type:** CSOM UInt32

**Accessibility:** Read/Write

Specifies the language code identifier (LCID) for the language that is used on the site (2).

#### **3.2.5.195.1.1.5 LastItemModifiedDate**

**Type:** CSOM DateTime

**Accessibility:** Read/Write

Specifies when an item was last modified in the site (2).

#### **3.2.5.195.1.1.6 Title**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the title for the site (2).

Its length MUST be equal to or less than 255.

#### **3.2.5.195.1.1.7 WebTemplateId**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the identifier of the site template that was used to create the site (2).

#### **3.2.5.195.1.2 ObjectPath Properties**

None.

#### **3.2.5.196 Microsoft.SharePoint.Client.WebInformationCollection**

**TypeId:** {FDDC4EE9-DC2E-444E-9D02-664C255DA6F1}

**ShortName:** SP.WebInformationCollection

Specifies a collection of objects containing metadata about a site (2). [<197>](#)

#### **3.2.5.196.1 Properties**

##### **3.2.5.196.1.1 Scalar Properties**

None.

##### **3.2.5.196.1.2 ObjectPath Properties**

None.

## 3.2.5.196.2 Methods

### 3.2.5.196.2.1 Scalar Methods

#### 3.2.5.196.2.1.1 Add

**Return Type:** Microsoft.SharePoint.Client.WebInformation

Creates a new site (2) and adds it to this collection of sites (2).

**Parameters:**

*parameters:* The properties for the new site (2).

Type: Microsoft.SharePoint.Client.WebInfoCreationInformation

It MUST NOT be NULL.

#### 3.2.5.196.2.1.2 GetById

**Return Type:** Microsoft.SharePoint.Client.WebInformation

Returns an **SP.WebInformation** (section [3.2.5.195](#)) object containing metadata about a site (2) specified by the identifier of the **SP.WebInformation**.

**Parameters:**

*id:* Specifies the identifier.

Type: CSOM GUID

It MUST NOT be NULL. It MUST NOT be an empty GUID.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024809	System.ArgumentException	The SP.WebInformation specified by <i>id</i> does not exist.
- 2147024891	System.UnauthorizedAccessException	The user does not have permissions to retrieve the SP.WebInformation.

#### 3.2.5.196.2.2 ObjectPath Methods

None.

### 3.2.5.197 Microsoft.SharePoint.Client.XmlSchemaFieldCreationInformation

**TypeId:** {27B11DE3-188C-43B6-A3AC-E7123E134DB7}

**ShortName:** SP.XmlSchemaFieldCreationInformation

Specifies metadata about a field (2). [<198>](#)

### 3.2.5.197.1 Properties

#### 3.2.5.197.1.1 Scalar Properties

##### 3.2.5.197.1.1.1 Options

**Type:** Microsoft.SharePoint.Client.AddFieldOptions

**Accessibility:** Read/Write

Specifies the control settings that are used while adding a field (2).

##### 3.2.5.197.1.1.2 SchemaXml

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the schema that defines the field (2).

It MUST be NULL, empty, or an XML fragment that conforms to the **FieldDefinition** type as defined in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.

##### 3.2.5.197.1.2 ObjectPath Properties

None.

### 3.2.5.198 Microsoft.SharePoint.Client.ListItemEntityCollection

**TypeId:** {FF83E272-F05F-4215-93E2-2C6DF20EC8C7}

**ShortName:** SP.ListItemEntityCollection

Specifies a collection of list items. [<199>](#)

#### 3.2.5.198.1 Properties

##### 3.2.5.198.1.1 Scalar Properties

None.

##### 3.2.5.198.1.2 ObjectPath Properties

None.

#### 3.2.5.198.2 Methods

##### 3.2.5.198.2.1 Scalar Methods

None.



## 3.2.5.198.2.2 ObjectPath Methods

### 3.2.5.198.2.2.1 GetById

**Return Type:** Microsoft.SharePoint.Client.ListItem

Returns the list item with the specified list item identifier.

**Parameters:**

*itemId*: Specifies the list item identifier.

Type: CSOM Int32

## 3.2.5.199 Microsoft.SharePoint.Client.ThemeInfo

**TypeId:** {1E0A65DD-0C5F-4D2C-AB41-A74312709124}

**ShortName:** SP.ThemeInfo

Specifies a theme for a site (2).<200>

### 3.2.5.199.1 Properties

#### 3.2.5.199.1.1 Scalar Properties

##### 3.2.5.199.1.1.1 AccessibleDescription

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the accessible description for this theme.

##### 3.2.5.199.1.1.2 ThemeBackgroundImageUri

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URI of the background image for this theme.

##### 3.2.5.199.1.2 ObjectPath Properties

None.

### 3.2.5.199.2 Methods

#### 3.2.5.199.2.1 Scalar Methods

##### 3.2.5.199.2.1.1 GetThemeFontByName

**Return Type:** CSOM String

Returns the name of the theme font for the specified font slot name and language code identifier (LCID). MUST return **null** if the font slot does not exist.

**Parameters:**

*name*: Name of the font slot.

Type: CSOM String

*lcid*: The language code identifier (LCID) for the required language.

Type: CSOM UInt32

### 3.2.5.199.2.1.2 GetThemeFontSizeByName

**Return Type:** CSOM String

Returns the font size of the theme font for the specified font slot name. MUST return null if the font slot does not exist.

**Parameters:**

*name*: Name of the font slot.

Type: CSOM String

### 3.2.5.199.2.1.3 GetThemeShadeByName

**Return Type:** CSOM String

Returns the HTML color code for the given theme color token.

**Parameters:**

*name*: The color token specifying a particular color slot in the theme.

Type: CSOM String

### 3.2.5.199.2.2 ObjectPath Methods

None.

## 3.2.5.200 Microsoft.SharePoint.Client.InformationRightsManagementSettings

**TypeId:** {DC0556DE-B544-4702-B2DC-9886AC31B25F}

**ShortName:** SP.InformationRightsManagementSettings

A collection of Information Rights Management (IRM) settings for a list (1).<201>

### 3.2.5.200.1 Properties

#### 3.2.5.200.1.1 Scalar Properties

##### 3.2.5.200.1.1.1 AllowPrint

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a user can print the document.

### **3.2.5.200.1.1.2 AllowScript**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a user can run scripts on a downloaded document.

### **3.2.5.200.1.1.3 AllowWriteCopy**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a user can write in a copy of the downloaded document.

### **3.2.5.200.1.1.4 DocumentAccessExpireDays**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the number of days after which the downloaded document will expire.

### **3.2.5.200.1.1.5 DocumentLibraryProtectionExpireDate**

**Type:** CSOM DateTime

**Accessibility:** Read/Write

Specifies the date on which the Information Rights Management (IRM) protection of this document library will stop.

### **3.2.5.200.1.1.6 EnableDocumentAccessExpire**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the downloaded document will expire.

### **3.2.5.200.1.1.7 EnableGroupProtection**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the permission of downloaded document is applicable to a group (2).

### **3.2.5.200.1.1.8 EnableLicenseCacheExpire**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether a user must verify his or her credentials after certain intervals.

### **3.2.5.200.1.1.9 GroupName**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the group (2) name (email address) that the permission is also applicable to.

### **3.2.5.200.1.1.10 LicenseCacheExpireDays**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the cache **policy** expiration duration for the application that renders this document.

### **3.2.5.200.1.1.11 PolicyDescription**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the permission policy description.

### **3.2.5.200.1.1.12 PolicyTitle**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the permission policy title.

### **3.2.5.200.1.2 ObjectPath Properties**

None.

### **3.2.5.200.2 Methods**

#### **3.2.5.200.2.1 Scalar Methods**

##### **3.2.5.200.2.1.1 Reset**

**Return Type:** None

Resets all the properties to default value.

**Parameters:** None

##### **3.2.5.200.2.1.2 Update**

**Return Type:** None

Updates the document library with changes that are made to the settings.

**Parameters:** None

### **3.2.5.200.2.2 ObjectPath Methods**

None.

### **3.2.5.201**

#### **Microsoft.BusinessData.MetadataModel.Collections.EntityInstanceCollection**

**TypeId:** {973B9891-3BEF-4117-9E6F-90BDD6746D03}

**ShortName:** SP.BusinessData.Collections.EntityInstanceCollection

Specifies a read only collection of Entity Instances. [<202>](#)

#### **3.2.5.201.1 Properties**

##### **3.2.5.201.1.1 Scalar Properties**

None.

##### **3.2.5.201.1.2 ObjectPath Properties**

None.

#### **3.2.5.201.2 Methods**

##### **3.2.5.201.2.1 Scalar Methods**

None.

##### **3.2.5.201.2.2 ObjectPath Methods**

None.

### **3.2.5.202 Microsoft.BusinessData.MetadataModel.Collections.FilterCollection**

**TypeId:** {508617EA-E4BD-4EC7-817C-B8335C6384A2}

**ShortName:** SP.BusinessData.Collections.FilterCollection

Specifies a read only collection of filters. [<203>](#)

#### **3.2.5.202.1 Properties**

##### **3.2.5.202.1.1 Scalar Properties**

None.

##### **3.2.5.202.1.2 ObjectPath Properties**

None.

## 3.2.5.202.2 Methods

### 3.2.5.202.2.1 Scalar Methods

#### 3.2.5.202.2.1.1 SetFilterValue

**Return Type:** None

Sets a value for a filter in the **FilterCollection** (section [3.2.5.202](#)).

**Parameters:**

*inputFilterName:* Filter name to which the value is to set.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*valueIndex:* Index in the filter value array for the value.

Type: CSOM Int32

Its value MUST be equal to or greater than 0.

*value:* Value to set.

Type: System.Object

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.Infrastructure.AccessDeniedException	User does not have permissions to modify item.
-1	Microsoft.BusinessData.Runtime.ObjectNotFoundException	A filter item with the given name does not exist.
-2147467261	System.ArgumentNullException	The specified argument is <b>null</b> or empty.
-2146233086	System.ArgumentOutOfRangeException	Value at index in the filter is not accessible for modification. This problem occurs when the index is out of range.
-1	System.InvalidOperationException	Requested filter cannot be modified. Filter modification operation attempted on a non-modifiable filter.

#### 3.2.5.202.2.2 ObjectPath Methods

None.

### 3.2.5.203 Microsoft.SharePoint.Client.ContextWebInformation

**TypeId:** {DF0C42FE-FC26-4D81-A32E-A40090D1ACB7}

**ShortName:** SP.ContextWebInformation

Specifies metadata about a site (2). [<204>](#)

#### 3.2.5.203.1 Properties

##### 3.2.5.203.1.1 Scalar Properties

###### 3.2.5.203.1.1.1 FormDigestTimeoutSeconds

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the amount of time in seconds before security validation expires.

###### 3.2.5.203.1.1.2 FormDigestValue

**Type:** CSOM String

**Accessibility:** Read Only

Specifies a valid form digest for the site (2).

###### 3.2.5.203.1.1.3 LibraryVersion

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the library version.

###### 3.2.5.203.1.1.4 SiteFullUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL of the site collection that contains the site (2).

###### 3.2.5.203.1.1.5 SupportedSchemaVersions

**Type:** CSOM Array

**Accessibility:** Read Only

Specifies the supported client-side object model (CSOM) request **schema version**.

###### 3.2.5.203.1.1.6 WebFullUrl

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the URL of the site (2).

### 3.2.5.203.1.2 ObjectPath Properties

None.

### 3.2.5.204 Microsoft.SharePoint.Client.EventReceiverDefinition

**TypeId:** {A8D3515C-1135-4FFF-95A6-4E5E5FFF4ADC}

**ShortName:** SP.EventReceiverDefinition

Abstract base class that defines general properties of an event receiver. <205>

#### 3.2.5.204.1 Properties

##### 3.2.5.204.1.1 Scalar Properties

###### 3.2.5.204.1.1.1 EventType

**Type:** Microsoft.SharePoint.Client.EventReceiverType

**Accessibility:** Read Only

Specifies the type of event for the event receiver (section [3.2.5.208](#))

###### 3.2.5.204.1.1.2 ReceiverAssembly

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the **strong name** of the assembly that is used for event receiving.

###### 3.2.5.204.1.1.3 ReceiverClass

**Type:** CSOM String

**Accessibility:** Read Only

Specifies a string that represents the class that is used for receiving events.

###### 3.2.5.204.1.1.4 ReceiverName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the event receiver.

###### 3.2.5.204.1.1.5 ReceiverUrl

**Type:** CSOM String



**Accessibility:** Read Only

Specifies the URL of a web service that is used for event receiving.

### 3.2.5.204.1.1.6 SequenceNumber

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies an integer that represents the relative sequence of the event.

### 3.2.5.204.1.1.7 Synchronization

**Type:** Microsoft.SharePoint.Client.EventReceiverSynchronization

**Accessibility:** Read Only

Specifies the synchronization of actions of this event receiver (section [3.2.5.207](#))

### 3.2.5.204.1.2 ObjectPath Properties

None.

## 3.2.5.204.2 Methods

### 3.2.5.204.2.1 Scalar Methods

#### 3.2.5.204.2.1.1 DeleteObject

**Return Type:** None

Deletes an event receiver definition.

**Parameters:** None

### 3.2.5.204.2.2 ObjectPath Methods

None.

## 3.2.5.205 Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**TypeId:** {8AEF5B03-F05E-46E9-9537-6C3AAD574B7A}

**ShortName:** SP.EventReceiverDefinitionCollection

Represents a collection of **EventReceiverDefinition** (section [3.2.5.204](#)) objects that are used to enumerate the list of registered event receivers for objects that can have events. [<206>](#)

### 3.2.5.205.1 Properties

#### 3.2.5.205.1.1 Scalar Properties

None.

### 3.2.5.205.1.2 ObjectPath Properties

None.

### 3.2.5.205.2 Methods

#### 3.2.5.205.2.1 Scalar Methods

None.

#### 3.2.5.205.2.2 ObjectPath Methods

##### 3.2.5.205.2.2.1 Add

**Return Type:** Microsoft.SharePoint.Client.EventReceiverDefinition

Creates an event receiver definition in the collection.

**Parameters:**

*eventReceiverCreationInformation*: Event receiver metadata.

Type: Microsoft.SharePoint.Client.EventReceiverDefinitionCreationInformation

##### 3.2.5.205.2.2.2 GetById

**Return Type:** Microsoft.SharePoint.Client.EventReceiverDefinition

Returns an **EventReceiverDefinition** (section [3.2.5.204](#)) for the specified event receiver identifier.

**Parameters:**

*eventReceiverId*: Identifier of the event receiver.

Type: CSOM GUID

### 3.2.5.206

#### Microsoft.SharePoint.Client.EventReceiverDefinitionCreationInformation

**TypeId:** {2C15382F-B6E4-41F6-8616-4CBE0080A5DE}

**ShortName:** SP.EventReceiverDefinitionCreationInformation

Specifies event receiver creation information. [<207>](#)

#### 3.2.5.206.1 Properties

##### 3.2.5.206.1.1 Scalar Properties

###### 3.2.5.206.1.1.1 EventType

**Type:** Microsoft.SharePoint.Client.EventReceiverType

**Accessibility:** Read/Write

Specifies the type of event as specified by **EventReceiverType** (section [3.2.5.208](#)).

### 3.2.5.206.1.1.2 ReceiverAssembly

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the strong name of the assembly that is used for receiving events.

### 3.2.5.206.1.1.3 ReceiverClass

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a string that represents the class that is used for receiving events.

### 3.2.5.206.1.1.4 ReceiverName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the name of the event receiver.

### 3.2.5.206.1.1.5 ReceiverUrl

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the URL of a web service that is used for receiving events.

### 3.2.5.206.1.1.6 SequenceNumber

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies an integer that represents the relative sequence of the event.

### 3.2.5.206.1.2 ObjectPath Properties

None.

### 3.2.5.207 Microsoft.SharePoint.Client.EventReceiverSynchronization

**ShortName:** SP.EventReceiverSynchronization

**Flag:** false

Specifies the synchronization state value for the specified event receiver. [<208>](#)

### 3.2.5.207.1 Field Values

#### 3.2.5.207.1.1 DefaultSynchronization

**Value:** 0

Specifies to run the event receiver synchronously, as specified in section [3.2.5.207.1.2](#), if it is a Before event. Specifies to run the event receiver asynchronously, as specified in section [3.2.5.207.1.3](#), if it is an After event.

#### 3.2.5.207.1.2 Synchronous

**Value:** 1

Specifies that the event receiver is to run synchronously, or immediately.

#### 3.2.5.207.1.3 Asynchronous

**Value:** 2

Specifies that the event receiver is to run asynchronously, or under a timer service.

### 3.2.5.208 Microsoft.SharePoint.Client.EventReceiverType

**ShortName:** SP.EventReceiverType

**Flag:** false

Specifies the type of event that is handled by the event receiver. [<209>](#)

#### 3.2.5.208.1 Field Values

##### 3.2.5.208.1.1 InvalidReceiver

**Value:** -1

Indicates that an invalid event receiver type has been specified.

##### 3.2.5.208.1.2 ItemAdding

**Value:** 1

Specifies an event that occurs before an item is added.

##### 3.2.5.208.1.3 ItemUpdating

**Value:** 2

Specifies an event that occurs before an item is updated.

##### 3.2.5.208.1.4 ItemDeleting

**Value:** 3

Specifies an event that occurs before an item is deleted.

### **3.2.5.208.1.5 ItemCheckingIn**

**Value:** 4

Specifies an event that occurs before an item is checked in.

### **3.2.5.208.1.6 ItemCheckingOut**

**Value:** 5

Specifies an event that occurs before an item is checked out.

### **3.2.5.208.1.7 ItemUncheckingOut**

**Value:** 6

Specifies an event that occurs before a checkout of an item is reversed.

### **3.2.5.208.1.8 ItemAttachmentAdding**

**Value:** 7

Specifies an event that occurs before an attachment is added to the item.

### **3.2.5.208.1.9 ItemAttachmentDeleting**

**Value:** 8

Specifies an event that occurs before an attachment is removed from the item.

### **3.2.5.208.1.10 ItemFileMoving**

**Value:** 9

Specifies an event that occurs before a file is moved.

### **3.2.5.208.1.11 ItemVersionDeleting**

**Value:** 11

Specifies an event that occurs before an item version is deleted.

### **3.2.5.208.1.12 FieldAdding**

**Value:** 101

Specifies an event that occurs before a field (2) is added to a list (1).

### **3.2.5.208.1.13 FieldUpdating**

**Value:** 102

Specifies an event that occurs before a field (2) is updated.

### **3.2.5.208.1.14 FieldDeleting**

**Value:** 103

Specifies an event that occurs before a field (2) is deleted from a list (1).

### **3.2.5.208.1.15 ListAdding**

**Value:** 104

Specifies an event that occurs before a list (1) is created.

### **3.2.5.208.1.16 ListDeleting**

**Value:** 105

Specifies an event that occurs before a list (1) is deleted.

### **3.2.5.208.1.17 SiteDeleting**

**Value:** 201

Specifies an event that occurs before a site collection is deleted.

### **3.2.5.208.1.18 WebDeleting**

**Value:** 202

Specifies an event that occurs before a site (2) is deleted.

### **3.2.5.208.1.19 WebMoving**

**Value:** 203

Specifies an event that occurs before a site (2) (URL) is changed.

### **3.2.5.208.1.20 WebAdding**

**Value:** 204

Specifies an event that occurs before a new site (2) is created.

### **3.2.5.208.1.21 GroupAdding**

**Value:** 301

Specifies an event that occurs before a security group is added.

### **3.2.5.208.1.22 GroupUpdating**

**Value:** 302

Specifies an event that occurs before a security group is updated.

### **3.2.5.208.1.23 GroupDeleting**

**Value:** 303

Specifies an event that occurs before a security group is deleted.

### **3.2.5.208.1.24 GroupUserAdding**

**Value:** 304

Specifies an event that occurs before a user is added to a security group.

### **3.2.5.208.1.25 GroupUserDeleting**

**Value:** 305

Specifies an event that occurs before a user is deleted from a security group.

### **3.2.5.208.1.26 RoleDefinitionAdding**

**Value:** 306

Specifies an event that occurs before a role definition is added.

### **3.2.5.208.1.27 RoleDefinitionUpdating**

**Value:** 307

Specifies an event that occurs before a role definition is updated.

### **3.2.5.208.1.28 RoleDefinitionDeleting**

**Value:** 308

Specifies an event that occurs before a role definition is deleted.

### **3.2.5.208.1.29 RoleAssignmentAdding**

**Value:** 309

Specifies an event that occurs before a role assignment is added.

### **3.2.5.208.1.30 RoleAssignmentDeleting**

**Value:** 310

Specifies an event that occurs before a role assignment is deleted.

### **3.2.5.208.1.31 InheritanceBreaking**

**Value:** 311

Specifies an event that occurs before an inheritance is broken.

### **3.2.5.208.1.32 InheritanceRestoring**

**Value:** 312

Specifies an event that occurs before an inheritance is restored.

### **3.2.5.208.1.33 WorkflowStarting**

**Value:** 501

Specifies an event that occurs before a workflow (2) starts running.

### **3.2.5.208.1.34 ItemAdded**

**Value:** 10001

Specifies an event that occurs after an item has been added.

### **3.2.5.208.1.35 ItemUpdated**

**Value:** 10002

Specifies an event that occurs after an item has been updated.

### **3.2.5.208.1.36 ItemDeleted**

**Value:** 10003

Specifies an event that occurs after an item has been deleted.

### **3.2.5.208.1.37 ItemCheckedIn**

**Value:** 10004

Specifies an event that occurs after an item has been checked in.

### **3.2.5.208.1.38 ItemCheckedOut**

**Value:** 10005

Specifies an event that occurs after an item has been checked out.

### **3.2.5.208.1.39 ItemUncheckedOut**

**Value:** 10006

Specifies an event that occurs after a check-out for an item has been reversed.

### **3.2.5.208.1.40 ItemAttachmentAdded**

**Value:** 10007

Specifies an event that occurs after an attachment has been added to an item.



#### **3.2.5.208.1.41 ItemAttachmentDeleted**

**Value:** 10008

Specifies an event that occurs after an attachment has been removed from an item.

#### **3.2.5.208.1.42 ItemFileMoved**

**Value:** 10009

Specifies an event that occurs after a file has been moved.

#### **3.2.5.208.1.43 ItemFileConverted**

**Value:** 10010

Specifies an event that occurs after a file has been transformed from one type to another.

#### **3.2.5.208.1.44 ItemVersionDeleted**

**Value:** 10011

Specifies an event that occurs after a version of an item of a file is deleted.

#### **3.2.5.208.1.45 FieldAdded**

**Value:** 10101

Specifies an event that occurs after a field (2) has been added.

#### **3.2.5.208.1.46 FieldUpdated**

**Value:** 10102

Specifies an event that occurs after a field (2) has been updated.

#### **3.2.5.208.1.47 FieldDeleted**

**Value:** 10103

Specifies an event that occurs after a field (2) has been deleted.

#### **3.2.5.208.1.48 ListAdded**

**Value:** 10104

Specifies an event that occurs after a list (1) has been created.

#### **3.2.5.208.1.49 ListDeleted**

**Value:** 10105

Specifies an event that occurs after a list (1) has been deleted.

### **3.2.5.208.1.50 SiteDeleted**

**Value:** 10201

Specifies an event that occurs after a site collection has been deleted.

### **3.2.5.208.1.51 WebDeleted**

**Value:** 10202

Specifies an event that occurs after a site (2) has been deleted.

### **3.2.5.208.1.52 WebMoved**

**Value:** 10203

Specifies an event that occurs after a site (2) URL has been changed.

### **3.2.5.208.1.53 WebProvisioned**

**Value:** 10204

Specifies an event that occurs after a new site (2) has been created, but before that new site (2) is provisioned.

### **3.2.5.208.1.54 GroupAdded**

**Value:** 10301

Specifies an event that occurs after a security group has been added.

### **3.2.5.208.1.55 GroupUpdated**

**Value:** 10302

Specifies an event that occurs after a security group has been updated.

### **3.2.5.208.1.56 GroupDeleted**

**Value:** 10303

Specifies an event that occurs after a security group has been deleted.

### **3.2.5.208.1.57 GroupUserAdded**

**Value:** 10304

Specifies an event that occurs after a user is added to a security group.

### **3.2.5.208.1.58 GroupUserDeleted**

**Value:** 10305

Specifies an event that occurs after a user is deleted from a security group.

### **3.2.5.208.1.59 RoleDefinitionAdded**

**Value:** 10306

Specifies an event that occurs after a role definition is added.

### **3.2.5.208.1.60 RoleDefinitionUpdated**

**Value:** 10307

Specifies an event that occurs after a role definition is updated.

### **3.2.5.208.1.61 RoleDefinitionDeleted**

**Value:** 10308

Specifies an event that occurs after a role definition is deleted.

### **3.2.5.208.1.62 RoleAssignmentAdded**

**Value:** 10309

Specifies an event that occurs after a role assignment is added.

### **3.2.5.208.1.63 RoleAssignmentDeleted**

**Value:** 10310

Specifies an event that occurs after a role assignment is deleted.

### **3.2.5.208.1.64 InheritanceBroken**

**Value:** 10311

Specifies an event that occurs after an inheritance has been broken.

### **3.2.5.208.1.65 InheritanceRestored**

**Value:** 10312

Specifies an event that occurs after an inheritance has been restored.

### **3.2.5.208.1.66 WorkflowStarted**

**Value:** 10501

Specifies an event that occurs after a workflow (2) has started running.

### **3.2.5.208.1.67 WorkflowPostponed**

**Value:** 10502

Specifies an event that occurs after a workflow (2) has been postponed.

### **3.2.5.208.1.68 WorkflowCompleted**

**Value:** 10503

Specifies an event that occurs after a workflow (2) has completed running.

### **3.2.5.208.1.69 EntityInstanceAdded**

**Value:** 10601

Specifies an event that occurs after an **EntityInstance** has been added.

### **3.2.5.208.1.70 EntityInstanceUpdated**

**Value:** 10602

Specifies an event that occurs after an EntityInstance has been updated.

### **3.2.5.208.1.71 EntityInstanceDeleted**

**Value:** 10603

Specifies an event that occurs after an EntityInstance has been deleted.

### **3.2.5.208.1.72 AppInstalled**

**Value:** 10701

Specifies an event that occurs after an application has been deleted.

### **3.2.5.208.1.73 AppUpgraded**

**Value:** 10702

Specifies an event that occurs after an application has been upgraded.

### **3.2.5.208.1.74 AppUninstalling**

**Value:** 10703

Specifies an event that occurs after an application has been uninstalled.

### **3.2.5.208.1.75 EmailReceived**

**Value:** 20000

Specifies an event that occurs after a list (1) received an e-mail message.

### **3.2.5.208.1.76 ContextEvent**

**Value:** 32766

Specifies an event that occurs after a list (1) received a context event.

### 3.2.5.209 Microsoft.SharePoint.Client.MoveDestination

**TypeId:** {CFDE695C-9130-430A-B3D9-59FD8758E458}

**ShortName:** SP.MoveDestination

This class represents a move destination and contains the destination name and URL. [<210>](#)

#### 3.2.5.209.1 Properties

##### 3.2.5.209.1.1 Scalar Properties

###### 3.2.5.209.1.1.1 Destination

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the destination URL.

###### 3.2.5.209.1.1.2 IsSite

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies the move destination URL type: a site URL or a folder URL. A **true** value indicates that the destination is a site (2) URL. A **false** value indicates that the destination is a folder URL.

###### 3.2.5.209.1.1.3 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the destination name.

##### 3.2.5.209.1.2 ObjectPath Properties

None.

### 3.2.5.210 Microsoft.SharePoint.Client.MoveDestinationCollection

**TypeId:** {3660149E-B982-4EF1-A876-0692058F9946}

**ShortName:** SP.MoveDestinationCollection

Contains a list of move destinations and a paging position used in a query. [<211>](#) It is used as the return data type for the **GetDestinations** (section [3.2.5.189.2.1.6](#)) method in the **SP.Move** (section [3.2.5.189](#)) class.

### 3.2.5.210.1 Properties

#### 3.2.5.210.1.1 Scalar Properties

##### 3.2.5.210.1.1.1 Destinations

**Type:** CSOM Array

**Accessibility:** Read Only

Specifies the list of move destinations.

##### 3.2.5.210.1.1.2 PagePosition

**Type:** Microsoft.SharePoint.Client.ListItemCollectionPosition

**Accessibility:** Read Only

Specifies the paging information used in a query. It is used by the **GetDestinations** (section [3.2.5.189.2.1.6](#)) method in the **SP.Move** (section [3.2.5.189](#)) class to get more destinations starting from the given page position.

##### 3.2.5.210.1.2 ObjectPath Properties

None.

#### 3.2.5.211 Microsoft.SharePoint.Client.RelatedItem

**TypeId:** {627C69F5-12E8-46BC-9052-BD5E46E155D3}

**ShortName:** SP.RelatedItem

Specifies the data object representation of all the information needed to display related items in a field (2) control. [<212>](#)

#### 3.2.5.211.1 Properties

##### 3.2.5.211.1.1 Scalar Properties

###### 3.2.5.211.1.1.1 ItemID

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the underlying list item.

###### 3.2.5.211.1.1.2 ListName

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **Title** property of **ParentList** (section [3.2.5.87.1.2.6](#)) of underlying list item.

### 3.2.5.211.1.1.3 Title

**Type:** CSOM String

**Accessibility:** Read/Write

This property is first mapped to the **Title** property of underlying list item if the **Title** property is not **null**. If that fails, it is mapped to the **Title** or **Filename** property of **ListItem.File** (section [3.2.5.87.1.2.5](#)) object if present. Finally the mapping defaults to a static title string.

### 3.2.5.211.1.1.4 Url

**Type:** CSOM String

**Accessibility:** Read/Write

Maps to the default display form URL for the underlying list item or file URL if **ListItem.File** (section [3.2.5.87.1.2.5](#)) object is present.

### 3.2.5.211.1.2 ObjectPath Properties

None.

### 3.2.5.212 Microsoft.SharePoint.Client.RelatedItemManager

**TypeId:** {23AF17DB-2585-4D17-82A7-AA9E3FBA099D}

**ShortName:** SP.RelatedItemManager

Specifies a static class that provides methods to add, delete and enumerate related items to a particular **ListItem** (section [3.2.5.87](#)).<213>

#### 3.2.5.212.1 Properties

##### 3.2.5.212.1.1 Scalar Properties

None.

##### 3.2.5.212.1.2 ObjectPath Properties

None.

#### 3.2.5.212.2 Methods

##### 3.2.5.212.2.1 Scalar Methods

###### 3.2.5.212.2.1.1 AddSingleLink

This method is a static CSOM method.

**Return Type:** None

Adds a unidirectional link from one list item to another.

**Parameters:**

*SourceListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) property of the source list item.

Type: CSOM String

Should be a valid listname.

*SourceItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the source list item.

Type: CSOM Int32

*TargetListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) property of the target list item.

Type: CSOM String

*TargetItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the target list item.

Type: CSOM Int32

### 3.2.5.212.2.1.2 DeleteSingleLink

This method is a static CSOM method.

**Return Type:** None

Deletes a unidirectional link between source and target list items.

**Parameters:**

*SourceListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) property of the source list item.

Type: CSOM String

*SourceItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the source list item.

Type: CSOM Int32

*TargetListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) of the target list item.

Type: CSOM String

*TargetItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the target list item.

Type: CSOM Int32

### 3.2.5.212.2.1.3 GetPageOneRelatedItems

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.RelatedItem[]

Returns a list of up to four (4) items related to the source list item.

**Parameters:**



*SourceListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) property of the source list item.

Type: CSOM String

*SourceItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the source list item.

Type: CSOM Int32

#### **3.2.5.212.2.1.4 GetRelatedItems**

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.RelatedItem[]

Returns a list of up to nine (9) items related to the source list item.

**Parameters:**

*SourceListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) property of the source list item.

Type: CSOM String

*SourceItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the source list item.

Type: CSOM Int32

#### **3.2.5.212.2.1.5 AddSingleLinkFromUrl**

This method is a static CSOM method.

**Return Type:** None

Adds a unidirectional link from one list item to another using a URL for the source list item.

**Parameters:**

*SourceItemUrl*: Specifies a URL for the source list item.

Type: CSOM String

*TargetListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) of the target list item.

Type: CSOM String

*TargetItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the target list item.

Type: CSOM Int32

#### **3.2.5.212.2.1.6 AddSingleLinkToUrl**

This method is a static CSOM method.

**Return Type:** None

Adds a unidirectional link from one list item to another using a URL for the target list item.

**Parameters:**

*SourceListName*: Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#)) property of the source list item.

Type: CSOM String

*SourceItemID*: Specifies the **Id** (section [3.2.5.87.1.1.5](#)) property of the source list item.

Type: CSOM Int32

*TargetItemUrl*: Specifies a URL for the source list item.

Type: CSOM String

**3.2.5.212.2.2 ObjectPath Methods**

None.

**3.2.5.213 Microsoft.SharePoint.Client.SPAppLicense**

**TypeId**: {D3425BF9-FE82-4957-AFDA-5FBD21DABB85}

**ShortName**: SP.SPAppLicense

Specifies a SharePoint Marketplace User Assignment. [<214>](#)

**3.2.5.213.1 Properties****3.2.5.213.1.1 Scalar Properties****3.2.5.213.1.1.1 RemainingDays**

**Type**: CSOM Int32

**Accessibility**: Read Only

The number of days that the marketplace license has until it expires. If this value is negative, the marketplace license has already expired.

**3.2.5.213.1.1.2 RawXMLLicenseToken**

**Type**: CSOM String

**Accessibility**: Read Only

The implementation specific **XML** that specifies the **marketplace license token**.

**3.2.5.213.1.2 ObjectPath Properties**

None.

**3.2.5.214 Microsoft.SharePoint.Client.SPAppLicenseCollection**

**TypeId**: {47BEB529-4C4B-41BA-B717-28D18FBDF258}

**ShortName:** SP.SPAppLicenseCollection

Specifies a collection of SharePoint Marketplace User Assignments. <215>

### 3.2.5.214.1 Properties

#### 3.2.5.214.1.1 Scalar Properties

None.

#### 3.2.5.214.1.2 ObjectPath Properties

None.

### 3.2.5.215 Microsoft.SharePoint.Client.SPAppLicenseType

**ShortName:** SP.SPAppLicenseType

**Flag:** false

Specifies whether a marketplace license is valid in perpetuity or not, and whether it is valid for all users or only assigned users. <216>

#### 3.2.5.215.1 Field Values

##### 3.2.5.215.1.1 PerpetualMultiUser

**Value:** 0

Specifies that the marketplace license is valid for assigned users in perpetuity.

##### 3.2.5.215.1.2 PerpetualAllUsers

**Value:** 1

Specifies that the marketplace license is valid for all users in perpetuity.

##### 3.2.5.215.1.3 TrialMultiUser

**Value:** 2

Specifies that the marketplace license is valid for assigned users on a trial basis.

##### 3.2.5.215.1.4 TrialAllUsers

**Value:** 3

Specifies that the marketplace License is valid for all users on a trial basis.

### 3.2.5.216 Microsoft.SharePoint.Client.UpgradeType

**ShortName:** SP.UpgradeType

**Flag:** false

Specifies the type of site collection upgrade to conduct on a site collection. <217>

### 3.2.5.216.1 Field Values

#### 3.2.5.216.1.1 BuildUpgrade

**Value:** 0

Specifies build-to-build (minor version) site collection upgrade.

#### 3.2.5.216.1.2 VersionUpgrade

**Value:** 1

Specifies version-to-version (major version) site collection upgrade.

### 3.2.5.217 Microsoft.SharePoint.Client.Utilities.WikiPageCreationInformation

**TypeId:** {9E154AAB-8847-4CF9-8BFA-EB8C1EC47926}

**ShortName:** SP.Utilities.WikiPageCreationInformation

Specifies wiki page creation information. [<218>](#)

#### 3.2.5.217.1 Properties

##### 3.2.5.217.1.1 Scalar Properties

###### 3.2.5.217.1.1.1 ServerRelativeUrl

**Type:** CSOM String

**Accessibility:** Read/Write

The server-relative URL of the wiki page to be created.

It MUST NOT be empty. It MUST be a URL of server-relative form.

###### 3.2.5.217.1.1.2 WikiHtmlContent

**Type:** CSOM String

**Accessibility:** Read/Write

The HTML content of the wiki page.

##### 3.2.5.217.1.2 ObjectPath Properties

None.

### 3.2.5.218 Microsoft.BusinessData.MetadataModel.AppBdcCatalog

**TypeId:** {8D36B2B8-5B9A-49A8-892B-5E9539FAF4E8}

**ShortName:** SP.BusinessData.AppBdcCatalog

Represents the Business Data Connectivity (BDC) MetadataCatalog for an application that contains external content types provisioned by the application. [<219>](#)

### 3.2.5.218.1 Properties

#### 3.2.5.218.1.1 Scalar Properties

None.

#### 3.2.5.218.1.2 ObjectPath Properties

None.

### 3.2.5.218.2 Methods

#### 3.2.5.218.2.1 Scalar Methods

##### 3.2.5.218.2.1.1 GetConnectionId

**Return Type:** CSOM String

Gets the identifier for the external connection being used by the given external system instance.

**Parameters:**

*lobSystemName:* The name of the external line-of-business (LOB) system under which the external system instance is defined.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstanceName:* The name of the external line-of-business (LOB) system instance.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024809	System.ArgumentException	Either the line-of-business (LOB) system or line-of-business (LOB) system instance does not exist in the Business Data Connectivity (BDC) MetadataCatalog file.
- 2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
- 2147024894	System.IO.FileNotFoundException	BDC MetadataCatalog file not found.

##### 3.2.5.218.2.1.2 GetLobSystemInstanceProperty

**Return Type:** CSOM String

Gets the value of the specified property for the given external system instance.

**Parameters:**

*lobSystemName*: The name of the external line-of-business (LOB) system under which the external system instance is defined.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstanceName*: The name of the external line-of-business (LOB) system instance.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*propertyName*: The name of the property whose value is retrieved.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. The allowed properties whose value can be read are **WcfEndpointAddress**, **ODataServiceUrl**, **RdbConnection Data Source** and **ODataConnectionSettingsId**.

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024809	System.ArgumentException	Either the line-of-business (LOB) system or line-of-business (LOB) system instance does not exist in the Business Data Connectivity (BDC) MetadataCatalog file..
- 2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
-1	System.InvalidOperationException	Tried to read a property that is not in the list of properties whose value can be read.
- 2147024894	System.IO.FileNotFoundException	BDC MetadataCatalog file not found.

**3.2.5.218.2.1.3 GetLobSystemProperty**

**Return Type:** CSOM String

Gets the value of the specified property for the given external system.

**Parameters:**

*lobSystemName*: The name of the external line-of-business (LOB) system.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*propertyName*: The name of the property whose value is retrieved.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. The allowed properties whose value can be read are **WcfMexDocumentUrl**, **ODataServiceMetadataUrl** and **ODataConnectionSettingsId**.

## Exceptions:

Error Code	Error Type Name	Condition
-2147024809	System.ArgumentException	Line-of-business (LOB) system does not exist in the Business Data Connectivity (BDC) MetadataCatalog file.
-2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
-1	System.InvalidOperationException	Tried to read a property that is not in the list of properties whose value can be read.
-2147024894	System.IO.FileNotFoundException	Business Data Connectivity (BDC) MetadataCatalog file not found.

### 3.2.5.218.2.1.4 GetPermissibleConnections

**Return Type:** CSOM Array

Gets the list of external connections that the application has permissions to use.

**Parameters:** None

#### Exceptions:

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The list of external connections that the application has permissions to could not be retrieved.

### 3.2.5.218.2.1.5 SetConnectionId

**Return Type:** None

Sets the identifier for the external connection that will be used by the given external system instance.

#### Parameters:

*lobSystemName*: The name of the external line-of-business (LOB) system under which the external system instance is defined.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstanceName*: The name of the external line-of-business (LOB) system instance.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*connectionId*: Identifier for the external connection.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.SharePoint.SPException	The list of external connections could not be retrieved.
- 2147024809	System.ArgumentException	Either the line-of-business (LOB) system or line-of-business (LOB) system instance does not exist in the Business Data Connectivity (BDC) MetadataCatalog file
- 2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
- 2147024894	System.IO.FileNotFoundException	BDC MetadataCatalog file not found.

**3.2.5.218.2.1.6 SetLobSystemInstanceProperty**

**Return Type:** None

Sets the value of the specified property for the given external system instance.

**Parameters:**

*lobSystemName*: The name of the external line-of-business (LOB) system under which the external system instance is defined.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*lobSystemInstanceName*: The name of the external line-of-business (LOB) system instance.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*propertyName*: The name of the property whose value needs to be set.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. The allowed properties whose value can be set are **WcfEndpointAddress**, **ODataServiceUrl**, **RdbConnection Data Source** and **ODataConnectionSettingsId**.

*propertyValue*: Value to set.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
-	System.ArgumentException	Either the line-of-business (LOB) system or line-of-



Error Code	Error Type Name	Condition
2147024809		business (LOB) system instance does not exist in the Business Data Connectivity (BDC) MetadataCatalog file.
- 2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
-1	System.InvalidOperationException	Tried to set a property that is not in the list of properties whose value can be set.
- 2147024894	System.IO.FileNotFoundException	BDC MetadataCatalog file not found.

### 3.2.5.218.2.1.7 SetLobSystemProperty

**Return Type:** None

Sets the value of the specified property for the given external system.

**Parameters:**

*lobSystemName*: The name of the external line-of-business (LOB) system.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*propertyName*: The name of the property whose value needs to be set.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty. The allowed properties whose value can be set are **WcfMexDocumentUrl**, **DataServiceMetadataUrl** and **ODataConnectionSettingsId**.

*propertyValue*: Value to set.

Type: CSOM String

**Exceptions:**

Error Code	Error Type Name	Condition
- 2147024809	System.ArgumentException	LOB system does not exist in the Business Data Connectivity (BDC) MetadataCatalog file.
- 2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
-1	System.InvalidOperationException	Tried to set a property which is not in the list of properties whose value can be set.
- 2147024894	System.IO.FileNotFoundException	Business Data Connectivity (BDC) MetadataCatalog file not found.

### 3.2.5.218.2.2 ObjectPath Methods

#### 3.2.5.218.2.2.1 GetEntity

**Return Type:** Microsoft.BusinessData.MetadataModel.Entity

Gets the external content type with the given name and namespace.

**Parameters:**

*namespace:* The namespace of the external content type. Namespaces are case sensitive.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

*name:* The name of the external content type. Names are case sensitive.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty.

**Exceptions:**

Error Code	Error Type Name	Condition
-1	Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException	Entity with the given parameters cannot be found.
-2147467261	System.ArgumentNullException	At least one of the parameters is <b>null</b> .
-2147024894	System.IO.FileNotFoundException	Business Data Connectivity (BDC) MetadataCatalog file not found.

### 3.2.5.219 Microsoft.SharePoint.Administration.SiteHealth.SiteHealthStatusType

**ShortName:** Microsoft.SharePoint.Administration.SiteHealth.SiteHealthStatusType

**Flag:** false

Specifies the success or failure mode of a site collection health rule. <220>

#### 3.2.5.219.1 Field Values

##### 3.2.5.219.1.1 Passed

**Value:** 0

Specifies that the site collection health rule passed. Site collection upgrade is not blocked by this site collection health rule.

### 3.2.5.219.1.2 FailedWarning

**Value:** 1

Specifies that the site collection health rule failed with a warning. Site collection upgrade is not blocked by this site collection health rule.

### 3.2.5.219.1.3 FailedError

**Value:** 2

Specifies that the site collection health rule failed with an error. Site collection upgrade is blocked by this site collection health rule.

### 3.2.5.220 Microsoft.SharePoint.Administration.SiteHealth.SiteHealthSummary

**TypeId:** {9B6A775C-EE99-4DF4-B251-3E004216D5B0}

**ShortName:** Microsoft.SharePoint.Administration.SiteHealth.SiteHealthSummary

Specifies a summary of the results of running a set of site collection health rules. [<221>](#)

#### 3.2.5.220.1 Properties

##### 3.2.5.220.1.1 Scalar Properties

###### 3.2.5.220.1.1.1 FailedErrorCount

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of site collection health rules that failed with an error.

###### 3.2.5.220.1.1.2 FailedWarningCount

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of site collection health rules that failed with a warning.

###### 3.2.5.220.1.1.3 PassedCount

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of site collection health rules that passed.

###### 3.2.5.220.1.1.4 Results

**Type:** CSOM Array

**Accessibility:** Read Only

Specifies a list of site collection health rule results, one for each site collection health rule that was run.

#### **3.2.5.220.1.1.5 SiteUrl**

**Type:** CSOM String

**Accessibility:** Read Only

The URL of the site collection on which the site collection health rules were run.

#### **3.2.5.220.1.2 ObjectPath Properties**

None.

#### **3.2.5.221 Microsoft.SharePoint.Administration.SPAppInstanceStatus**

**ShortName:** Microsoft.SharePoint.Administration.SPAppInstanceStatus

**Flag:** false

Represents the lifecycle status of a SharePoint App Instance. [<222>](#)

##### **3.2.5.221.1 Field Values**

###### **3.2.5.221.1.1 InvalidStatus**

**Value:** 0

This value indicates an internal product error, and MUST NOT occur in usage.

###### **3.2.5.221.1.2 Installing**

**Value:** 1

Specifies that the SharePoint App Instance is in the process of installing.

###### **3.2.5.221.1.3 Canceling**

**Value:** 7

Specifies that the SharePoint App Instance was installing, but the installation was cancelled, and it is now uninstalling.

###### **3.2.5.221.1.4 Registering**

**Value:** 3

Specifies that the SharePoint App Instance is in the middle of a transaction registering tasks for a state transition.

###### **3.2.5.221.1.5 Uninstalling**

**Value:** 4

Specifies that the SharePoint App Instance is in the process of uninstalling.

### 3.2.5.221.1.6 Installed

**Value:** 5

This value specifies that the SharePoint App Instance is installed.

### 3.2.5.221.1.7 Uninstalled

**Value:** 6

This value specifies that the SharePoint App Instance is uninstalled.

### 3.2.5.221.1.8 Upgrading

**Value:** 8

This value specifies that the SharePoint App Instance is upgrading.

### 3.2.5.221.1.9 Initialized

**Value:** 9

This value specifies that the SharePoint App Instance has been created, but is not yet installed.

### 3.2.5.221.1.10 UpgradeCanceling

**Value:** 10

This value specifies that the SharePoint App Instance was upgrading, but the upgrade operation has been cancelled.

### 3.2.5.221.1.11 Disabling

**Value:** 11

Specifies that the app instance is being changed to be inaccessible.

### 3.2.5.221.1.12 Disabled

**Value:** 12

Specifies that the app instance is inaccessible.

### 3.2.5.222 Microsoft.SharePoint.Client.Utilities.EmailProperties

**TypeId:** {FAB1608D-FDFB-4C8C-BB0A-9B9CC3618A15}

**ShortName:** SP.Utilities.EmailProperties

Specifies the definition of the email to send which includes both the message fields and body. [<223>](#)

### **3.2.5.222.1 Properties**

#### **3.2.5.222.1.1 Scalar Properties**

##### **3.2.5.222.1.1.1 AdditionalHeaders**

**Type:** CSOM dictionary

**Accessibility:** Read/Write

Specifies the email headers collection that corresponds to any additional fields of the message.

##### **3.2.5.222.1.1.2 BCC**

**Type:** System.Collections.Generic.IEnumerable<System.String>

**Accessibility:** Read/Write

Specifies the blind carbon copy (bcc) field of the email.

##### **3.2.5.222.1.1.3 Body**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the body of the email to send.

##### **3.2.5.222.1.1.4 CC**

**Type:** System.Collections.Generic.IEnumerable<System.String>

**Accessibility:** Read/Write

Specifies the carbon copy (cc) field of the email.

##### **3.2.5.222.1.1.5 From**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the From field of the email.

##### **3.2.5.222.1.1.6 Subject**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the Subject field of the email..

##### **3.2.5.222.1.1.7 To**

**Type:** System.Collections.Generic.IEnumerable<System.String>

**Accessibility:** Read/Write

Specifies the To field of the email.

### 3.2.5.222.1.2 ObjectPath Properties

None.

### 3.2.5.223 Microsoft.BusinessData.MetadataModel.Filter

**TypeId:** {EA36AF83-3D6A-4AE3-9EB1-4ED8E85EB176}

**ShortName:** SP.BusinessData.Filter

Specifies filters that are used to filter the data returned by the external line-of-business (LOB) system. <224>

Filters are the mechanism to pass parameters to the external LOB system methods.

#### 3.2.5.223.1 Properties

##### 3.2.5.223.1.1 Scalar Properties

###### 3.2.5.223.1.1.1 DefaultDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the default display name of the filter.

###### 3.2.5.223.1.1.2 FilterField

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the field (4) in the View that is affected by the result of this filter, described by dot notation path.

###### 3.2.5.223.1.1.3 FilterType

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the type of the filter.

Valid Filter Types are "Comparison", "LastId", "Limit", "PageNumber", "Password", "SsoTicket", "Timestamp", "UserContest", "Username", "UserProfile", "Wildcard", "Input", "Output", "InputOutput", "Batching", "BatchingTermination", "UserCulture", "ActivityId" and "Sorting".

It MUST NOT be NULL. It MUST NOT be empty.

#### 3.2.5.223.1.1.4 LocalizedDisplayName

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the localized display name of the field (4) if available.

#### 3.2.5.223.1.1.5 Name

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the name of the filter.

It MUST NOT be NULL. It MUST NOT be empty.

#### 3.2.5.223.1.1.6 ValueCount

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of values for this filter.

Its value MUST be equal to or greater than 0.

#### 3.2.5.223.1.2 ObjectPath Properties

None.

#### 3.2.5.223.2 Methods

##### 3.2.5.223.2.1 Scalar Methods

None.

##### 3.2.5.223.2.2 ObjectPath Methods

None.

#### 3.2.5.224 Microsoft.BusinessData.MetadataModel.MethodExecutionResult

**TypeId:** {EA36AF83-3D6A-4AE3-9EB1-4ED8E85EB179}

**ShortName:** SP.BusinessData.MethodExecutionResult

Represents generic invoker method result. [<225>](#)

#### 3.2.5.224.1 Properties

##### 3.2.5.224.1.1 Scalar Properties

None.



### 3.2.5.224.1.2 ObjectPath Properties

#### 3.2.5.224.1.2.1 ReturnParameterCollection

**Type:** Microsoft.BusinessData.MetadataModel.ReturnParameterCollection

**Accessibility:** Read Only

Specifies the **ReturnParameterCollection** (section [3.2.5.225](#)) for the **MethodExecutionResult** (section [3.2.5.224](#)).

#### 3.2.5.224.2 Methods

##### 3.2.5.224.2.1 Scalar Methods

None.

##### 3.2.5.224.2.2 ObjectPath Methods

None.

### 3.2.5.225 Microsoft.BusinessData.MetadataModel.ReturnParameterCollection

**TypeId:** {48264C2B-6775-458B-88DE-0C2A11938A03}

**ShortName:** SP.BusinessData.ReturnParameterCollection

Represents a read only collection of **EntityFieldValueDictionary** (section [3.2.5.164](#)) objects. [<226>](#)

#### 3.2.5.225.1 Properties

##### 3.2.5.225.1.1 Scalar Properties

None.

##### 3.2.5.225.1.2 ObjectPath Properties

None.

#### 3.2.5.225.2 Methods

##### 3.2.5.225.2.1 Scalar Methods

None.

##### 3.2.5.225.2.2 ObjectPath Methods

None.

### 3.2.5.226 Microsoft.SharePoint.Administration.SiteHealth.SiteHealthResult

**TypeId:** {3BA0823B-9B49-433B-A8A6-65A5139F06EC}

**ShortName:** Microsoft.SharePoint.Administration.SiteHealth.SiteHealthResult

Specifies the result of running a site collection health rule. [<227>](#)

### 3.2.5.226.1 Properties

#### 3.2.5.226.1.1 Scalar Properties

##### 3.2.5.226.1.1.1 Message

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the results of running a site collection health rule.

##### 3.2.5.226.1.1.2 Status

**Type:** Microsoft.SharePoint.Administration.SiteHealth.SiteHealthStatusType

**Accessibility:** Read/Write

Specifies the success or failure mode returned by a site collection health rule.

##### 3.2.5.226.1.1.3 TimeStamp

**Type:** CSOM DateTime

**Accessibility:** Read/Write

Specifies the date and time when the site collection health rule was run.

#### 3.2.5.226.1.2 ObjectPath Properties

##### 3.2.5.226.1.2.1 Rule

**Type:** Microsoft.SharePoint.Administration.SiteHealth.SiteHealthRule

**Accessibility:** Read/Write

Specifies the site collection health rule that was run in order to produce this result.

### 3.2.5.227 Microsoft.SharePoint.Administration.SiteHealth.SiteHealthRule

**TypeId:** {00BBF790-176E-4EDA-B842-D0BD6B480E51}

**ShortName:** Microsoft.SharePoint.Administration.SiteHealth.SiteHealthRule

Specifies a site collection health rule. [<228>](#) Site collection health rules check various aspects of sites (2), primarily in order to determine whether or not upgrading them is likely to be successful.

#### 3.2.5.227.1 Properties

##### 3.2.5.227.1.1 Scalar Properties

None.

### 3.2.5.227.1.2 ObjectPath Properties

#### 3.2.5.227.1.2.1 Site

**Type:** Microsoft.SharePoint.Client.Site

**Accessibility:** Read/Write

Specifies the site collection on which the site health rule was run.

#### 3.2.5.227.2 Methods

##### 3.2.5.227.2.1 Scalar Methods

None.

##### 3.2.5.227.2.2 ObjectPath Methods

None.

### 3.2.5.228

#### Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerQueryParameters

**TypeId:** {AC9358C6-E9B1-4514-BF6E-106ACBFB19CE}

**ShortName:** SP.UI.ApplicationPages.ClientPeoplePickerQueryParameters

Specifies the properties of a principal (1) query. [<229>](#)

#### 3.2.5.228.1 Properties

##### 3.2.5.228.1.1 Scalar Properties

###### 3.2.5.228.1.1.1 AllowEmailAddresses

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the principal (1) query can return a resolved principal (1) matching an unverified e-mail address when unable to resolve to a known principal (1).

###### 3.2.5.228.1.1.2 AllowMultipleEntities

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the principal (1) query allows multiple values.

###### 3.2.5.228.1.1.3 AllUrlZones

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the principal (1) query should search all locations in the topology of the farm.

#### **3.2.5.228.1.1.4 EnabledClaimProviders**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the **claims providers** to be used in the principal (1) query.

#### **3.2.5.228.1.1.5 MaximumEntitySuggestions**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the maximum number of principals (1) to be returned by the principal (1) query.

#### **3.2.5.228.1.1.6 PrimaryClaimProviderName**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the primary claims provider to be used in the principal (1) query. Principals (1) will display additional information when resolved by alternate claims providers.

#### **3.2.5.228.1.1.7 PrincipalSource**

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalSource

**Accessibility:** Read/Write

Specifies the source to be used in the principal (1) query.

#### **3.2.5.228.1.1.8 PrincipalType**

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read/Write

Specifies the type to be used in the principal (1) query.

#### **3.2.5.228.1.1.9 QueryString**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the value to be used in the principal (1) query.

#### **3.2.5.228.1.1.10 Required**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether the principal (1) query is required to return a result.

### **3.2.5.228.1.1.11 SharePointGroupID**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies a group (2) containing allowed principals (1) to be used in the principal (1) query.

### **3.2.5.228.1.1.12 UrlZone**

**Type:** Microsoft.SharePoint.Administration.UrlZone

**Accessibility:** Read/Write

Specifies a location in the topology of the farm for the principal (1) query.

### **3.2.5.228.1.1.13 UrlZoneSpecified**

**Type:** CSOM Boolean

**Accessibility:** Read/Write

Specifies whether any locations in the topology of the farm have been specified for the principal (1) query.

### **3.2.5.228.1.1.14 WebApplicationID**

**Type:** CSOM GUID

**Accessibility:** Read/Write

Specifies the identifier of the Web application (1) to be used in the principal (1) query.

## **3.2.5.228.1.2 ObjectPath Properties**

### **3.2.5.228.1.2.1 Web**

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read/Write

Specifies the site (2) to be used in the principal (1) query.

### **3.2.5.229 Microsoft.SharePoint.Client.DateTimeFieldFriendlyFormatType**

**ShortName:** SP.DateTimeFieldFriendlyFormatType

**Flag:** false

Specifies a friendly format to use in displaying date and time fields (2). [<230>](#)

### 3.2.5.229.1 Field Values

#### 3.2.5.229.1.1 Unspecified

**Value:** 0

Undefined. The default rendering will be used.

#### 3.2.5.229.1.2 Disabled

**Value:** 1

The standard absolute representation will be used (for example, "2011-01-15 3:00 PM").

#### 3.2.5.229.1.3 Relative

**Value:** 2

The standard friendly relative representation will be used (for example, "today at 3:00 PM").

### 3.2.5.230 Microsoft.SharePoint.Client.RegionalSettings

**TypeId:** {84C424A9-A1D6-46BA-8398-C46257ECD25B}

**ShortName:** SP.RegionalSettings

Specifies the locale settings of a site (2). [<231>](#)

#### 3.2.5.230.1 Properties

##### 3.2.5.230.1.1 Scalar Properties

###### 3.2.5.230.1.1.1 AdjustHijriDays

**Type:** CSOM Int16

**Accessibility:** Read Only

Specifies the number of days to extend or reduce the current month in Hijri calendars on the site (2).

###### 3.2.5.230.1.1.2 AlternateCalendarType

**Type:** CSOM Int16

**Accessibility:** Read Only

Gets an alternate calendar type that is used on the site (2).

The possible values are described in the table below.

Value	Description
0	No alternate calendar
1	Gregorian

Value	Description
3	Japanese Emperor Era
5	Korean Tangun Era
6	Hijri
7	Buddhist
8	Hebrew Lunar
9	Gregorian Middle East French Calendar
10	Gregorian Arabic Calendar
11	Gregorian Transliterated English Calendar
12	Gregorian Transliterated French Calendar
16	Saka Era
Other	Gregorian

### 3.2.5.230.1.1.3 AM

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the string that is used to represent time before midday on the site (2).

### 3.2.5.230.1.1.4 CalendarType

**Type:** CSOM Int16

**Accessibility:** Read Only

Specifies the calendar type that SHOULD be used when processing date values on the site (2). This value MUST be a **CalendarType** as specified in [\[MS-WSSFO3\]](#) section 2.2.1.2.3.

### 3.2.5.230.1.1.5 Collation

**Type:** CSOM Int16

**Accessibility:** Read Only

Specifies the **collation** order of the site (2), which indicates an additional sorting order that SHOULD be processed by any back-end database server associated with the site (2). The collation method is an implementation-specific capability of the front-end Web server and back-end database server.

### 3.2.5.230.1.1.6 CollationLCID

**Type:** CSOM UInt32

**Accessibility:** Read Only

Gets the language code identifier (LCID) for the collation rules that are used on the site (2).

### 3.2.5.230.1.1.7 DateFormat

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies the date format that is used on the server.

The possible values are specified in the following table.

Value	Description
0	Month-Day-Year.
1	Day-Month-Year.
2	Year-Month-Day.

### 3.2.5.230.1.1.8 DateSeparator

**Type:** CSOM String

**Accessibility:** Read Only

Gets the separator that is used for dates on the server.

### 3.2.5.230.1.1.9 DecimalSeparator

**Type:** CSOM String

**Accessibility:** Read Only

Gets the separator that is used for decimals on the server.

### 3.2.5.230.1.1.10 DigitGrouping

**Type:** CSOM String

**Accessibility:** Read Only

Gets the separator that is used in grouping digits.

### 3.2.5.230.1.1.11 FirstDayOfWeek

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies the first day of the week used in calendars on the server.

The possible values are specified in the following table.



Value	Description
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

### 3.2.5.230.1.1.12 FirstWeekOfYear

**Type:** CSOM Int16

**Accessibility:** Read Only

Specifies the first week of the year used in calendars on the server.

Specifies which week of a year is considered the first week.

The possible values are specified in the following table.

Value	Description
0	The first week is the week that January 1 falls in.
1	The first week is the first week that has four or more days in the new year.
2	The first week is the first full week of the year.

### 3.2.5.230.1.1.13 IsEastAsia

**Type:** CSOM Boolean

**Accessibility:** Read Only

Returns **true** if the web locale is an East Asia locale, **false** otherwise.

### 3.2.5.230.1.1.14 IsRightToLeft

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the site (2) uses a right-to-left language. If it uses a right-to-left language, this value MUST be **true**. Otherwise, this value MUST be **false**.

### 3.2.5.230.1.1.15 IsUIRightToLeft

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the UI of the site (2) uses a right-to-left language. If it uses a right-to-left language, this value MUST be **true**. Otherwise, this value MUST be **false**.

### 3.2.5.230.1.1.16 LocaleId

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies the language code identifier (LCID) in use on the server.

### 3.2.5.230.1.1.17 NegativeSign

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the symbol that is used to represent a negative sign on the site (2).

### 3.2.5.230.1.1.18 NegNumberMode

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies the negative number mode that is used for displaying negative numbers in calculated fields based on the locale of the server.

The possible values are specified in the following table.

Value	Description	Example
0	Parentheses contain the number.	(1.1)
1	Placed before the number.	-1.1
2	Placed before the number with an extra space.	- 1.1
3	Placed after the number.	1.1-
4	Placed after the number with an extra space.	1.1 -

### 3.2.5.230.1.1.19 PM

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the string that is used to represent time after noon on the site (2).

### 3.2.5.230.1.1.20 PositiveSign

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the symbol that is used to represent a positive number on the site (2).

### 3.2.5.230.1.1.21 ShowWeeks

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether to display the week number in day or week views of a calendar.

### 3.2.5.230.1.1.22 ThousandSeparator

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the symbol that is used to separate thousands for numbers on the site (2).

### 3.2.5.230.1.1.23 Time24

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the site (2) uses a 24-hour time format in representing the hours of the day. If it does, this value MUST be **true**; otherwise, this value MUST be **false**.

### 3.2.5.230.1.1.24 TimeMarkerPosition

**Type:** CSOM UInt32

**Accessibility:** Read Only

Specifies an unsigned 32-bit integer that indicates the position of A.M. and P.M. in relation to the time string.

The possible values are specified in the following table.

Value	Description	Example
0	A.M. or P.M. appears after the time string.	12:27 AM
1	A.M. or P.M. appears before the time string.	PM 12:27

### 3.2.5.230.1.1.25 TimeSeparator

**Type:** CSOM String

**Accessibility:** Read Only

Gets the time separator that is used on the server.

### 3.2.5.230.1.1.26 WorkDayEndHour

**Type:** CSOM Int16

**Accessibility:** Read Only

Specifies the default hour at which the work day ends on the calendar that is in use on the site (2).

The possible values are specified in the following table.

Value	Description
0	12:00 AM
60	1:00 AM
120	2:00 AM
180	3:00 AM
240	4:00 AM
300	5:00 AM
360	6:00 AM
320	7:00 AM
480	8:00 AM
540	9:00 AM
600	10:00 AM
660	11:00 AM
720	12:00 PM
780	1:00 PM
840	2:00 PM
900	3:00 PM
960	4:00 PM
1020	5:00 PM
1080	6:00 PM
1140	7:00 PM
1200	8:00 PM
1260	9:00 PM
1320	10:00 PM
1380	11:00 PM

**3.2.5.230.1.1.27 WorkDays**

**Type:** CSOM Int16

**Accessibility:** Read Only

Specifies a number that represents the work days of site (2) calendars.

Specifies a value that represents the work days in the site (2). This value is converted to its binary value, and it is read from left to right starting on Sunday and ending on Saturday. The days that have 1 are the work days in the site (2).

The following table shows some example values.

Value	Description	Work Days
127	1111111	All
0	0000000	None
64	1000000	Sunday
32	0100000	Monday
16	0010000	Tuesday
8	0001000	Wednesday
4	0000100	Friday
1	0000001	Sunday
62	0111110	Monday to Friday

### 3.2.5.230.1.1.28 WorkDayStartHour

**Type:** CSOM Int16

**Accessibility:** Read Only

Specifies the default hour at which the work day starts on the calendar that is in use on the site (2).

The possible values are specified in the following table.

Value	Description
0	12:00 AM
60	1:00 AM
120	2:00 AM
180	3:00 AM
240	4:00 AM
300	5:00 AM
360	6:00 AM
320	7:00 AM
480	8:00 AM

Value	Description
540	9:00 AM
600	10:00 AM
660	11:00 AM
720	12:00 PM
780	1:00 PM
840	2:00 PM
900	3:00 PM
960	4:00 PM
1020	5:00 PM
1080	6:00 PM
1140	7:00 PM
1200	8:00 PM
1260	9:00 PM
1320	10:00 PM
1380	11:00 PM

### 3.2.5.230.1.1.29 ListSeparator

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the separator that is used for lists on the server.

### 3.2.5.230.1.2 ObjectPath Properties

#### 3.2.5.230.1.2.1 TimeZone

**Type:** Microsoft.SharePoint.Client.TimeZone

**Accessibility:** Read Only

Specifies the **time zone** of the site (2).

#### 3.2.5.230.1.2.2 TimeZones

**Type:** Microsoft.SharePoint.Client.TimeZoneCollection

**Accessibility:** Read Only

Specifies the collection of time zones used on the site (2).

### 3.2.5.230.2 Methods

#### 3.2.5.230.2.1 Scalar Methods

None.

#### 3.2.5.230.2.2 ObjectPath Methods

None.

### 3.2.5.231 Microsoft.SharePoint.Client.TimeZone

**TypeId:** {5519D02C-CE37-4B91-B61D-A1CEFE0FC85E}

**ShortName:** SP.TimeZone

Specifies the time zone of a site (2). [<232>](#)

#### 3.2.5.231.1 Properties

##### 3.2.5.231.1.1 Scalar Properties

###### 3.2.5.231.1.1.1 Description

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the display name of the time zone.

###### 3.2.5.231.1.1.2 Id

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the identifier of the time zone.

###### 3.2.5.231.1.1.3 Information

**Type:** Microsoft.SharePoint.Client.TimeZoneInformation

**Accessibility:** Read Only

Specifies additional information about the time zone.

##### 3.2.5.231.1.2 ObjectPath Properties

None.

### 3.2.5.231.2 Methods

#### 3.2.5.231.2.1 Scalar Methods

##### 3.2.5.231.2.1.1 LocalTimeToUTC

**Return Type:** CSOM DateTime

Converts the specified date and time from the time zone to Coordinated Universal Time (UTC).

**Parameters:**

*date*: Specifies the value to convert.

Type: CSOM DateTime

##### 3.2.5.231.2.1.2 UTCToLocalTime

**Return Type:** CSOM DateTime

Converts the specified date and time from Coordinated Universal Time (UTC) to the time zone.

**Parameters:**

*date*: Specifies the value to convert

Type: CSOM DateTime

#### 3.2.5.231.2.2 ObjectPath Methods

None.

### 3.2.5.232 Microsoft.SharePoint.Client.TimeZoneCollection

**TypeId:** {117CBF47-7E74-4165-B26B-C24180AB2095}

**ShortName:** SP.TimeZoneCollection

Specifies a collection of time zones. [<233>](#)

#### 3.2.5.232.1 Properties

##### 3.2.5.232.1.1 Scalar Properties

None.

##### 3.2.5.232.1.2 ObjectPath Properties

None.

#### 3.2.5.232.2 Methods

##### 3.2.5.232.2.1 Scalar Methods

None.



### 3.2.5.232.2.2 ObjectPath Methods

#### 3.2.5.232.2.2.1 GetById

**Return Type:** Microsoft.SharePoint.Client.TimeZone

Returns the time zone with the specified identifier from the collection.

**Parameters:**

*id*: Specifies the identifier of the time zone.

Type: CSOM Int32

### 3.2.5.233 Microsoft.SharePoint.Client.TimeZoneInformation

**TypeId:** {09E18222-7E4D-488B-811D-6EF43F31D17F}

**ShortName:** SP.TimeZoneInformation

Specifies metadata about a time zone. [<234>](#)

#### 3.2.5.233.1 Properties

##### 3.2.5.233.1.1 Scalar Properties

###### 3.2.5.233.1.1.1 Bias

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of minutes that the time zone differs from Coordinated Universal Time (UTC). A positive value indicates that the time zone is behind UTC.

###### 3.2.5.233.1.1.2 DaylightBias

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of minutes added to the **Bias** (section [3.2.5.233.1.1.1](#)) during Daylight Savings Time.

###### 3.2.5.233.1.1.3 StandardBias

**Type:** CSOM Int32

**Accessibility:** Read Only

Specifies the number of minutes added to the **Bias** (section [3.2.5.233.1.1.1](#)) outside of Daylight Savings Time.

##### 3.2.5.233.1.2 ObjectPath Properties

None.

### 3.2.5.234 Microsoft.SharePoint.Administration.SiteCreationMode

**ShortName:** Microsoft.SharePoint.Administration.SiteCreationMode

**Flag:** false

Specifies the versions available for site collection creation. <235>

#### 3.2.5.234.1 Field Values

##### 3.2.5.234.1.1 OldVersionsOnly

**Value:** 0

Specifies that site collections can only be created for the version previous to the current code version.

##### 3.2.5.234.1.2 BothVersions

**Value:** 1

Specifies that site collections can be created for either the current code version or the version previous to the current code version.

##### 3.2.5.234.1.3 NewVersionsOnly

**Value:** 2

Specifies that site collections can only be created for the version matching the current code version.

### 3.2.5.235 Microsoft.SharePoint.Administration.AppAnalyticsEventId

**ShortName:** SP.Apps.AppAnalyticsEventId

**Flag:** false

Specifies event identifiers for **app** analytics. <236>

#### 3.2.5.235.1 Field Values

##### 3.2.5.235.1.1 None

**Value:** 0

Specifies an invalid event.

##### 3.2.5.235.1.2 AppInstall

**Value:** 512

Specifies an app install event.

##### 3.2.5.235.1.3 AppUninstall

**Value:** 513

Specifies an app uninstall event.

#### **3.2.5.235.1.4 AppLaunch**

**Value:** 514

Specifies an app launch event.

#### **3.2.5.235.1.5 AppInstallError**

**Value:** 515

Specifies an app install error event.

#### **3.2.5.235.1.6 AppRunTimeError**

**Value:** 516

Specifies an app run time error event.

#### **3.2.5.235.1.7 AppUpgradeError**

**Value:** 517

Specifies an app upgrade error event.

### **3.2.5.236 Microsoft.SharePoint.Administration.SPAppAnalyticsUtility**

**TypeId:** {E13DD46C-5D67-4B7F-A146-9A6B44870AA6}

**ShortName:** SP.Apps.SPAppAnalyticsUtility

Specifies a utility class to log analytics events. [<237>](#)

#### **3.2.5.236.1 Properties**

##### **3.2.5.236.1.1 Scalar Properties**

None.

##### **3.2.5.236.1.2 ObjectPath Properties**

None.

#### **3.2.5.236.2 Methods**

##### **3.2.5.236.2.1 Scalar Methods**

###### **3.2.5.236.2.1.1 LogAppClientEvent**

This method is a static CSOM method.

**Return Type:** None

Logs an analytics event for an app.

**Parameters:**

*eventId*: An identifier for the type of app analytics event.

Type: Microsoft.SharePoint.Administration.AppAnalyticsEventId

*appProductId*: A unique identifier for the app.

Type: CSOM GUID

**3.2.5.236.2.1.2 LogInstanceClientEvent**

This method is a static CSOM method.

**Return Type:** None

Logs an analytics event for an app instance.

**Parameters:**

*eventId*: An identifier for the type of app analytics event.

Type: Microsoft.SharePoint.Administration.AppAnalyticsEventId

*appInstanceId*: A unique identifier for the app instance.

Type: CSOM GUID

**3.2.5.236.2.2 ObjectPath Methods**

None.

**3.2.5.237****Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerWebServiceInterface**

**TypeId:** {DE2DB963-8BAB-4FB4-8A58-611AEBC5254B}

**ShortName:** SP.UI.ApplicationPages.ClientPeoplePickerWebServiceInterface

Specifies an interface that can be used to query principals (1).<238>

**3.2.5.237.1 Properties****3.2.5.237.1.1 Scalar Properties**

None.

**3.2.5.237.1.2 ObjectPath Properties**

None.

## 3.2.5.237.2 Methods

### 3.2.5.237.2.1 Scalar Methods

#### 3.2.5.237.2.1.1 ClientPeoplePickerResolveUser

This method is a static CSOM method.

**Return Type:** CSOM String

Resolves a principal (1).

**Parameters:**

*queryParams*: The query parameters to use for resolution as specified in section [3.2.5.228](#).

Type: Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerQueryParameters

#### 3.2.5.237.2.1.2 ClientPeoplePickerSearchUser

This method is a static CSOM method.

**Return Type:** CSOM String

Searches for a principal (1) based on the query parameters.

**Parameters:**

*queryParams*: The query parameters to use for resolution as specified in section [3.2.5.228](#).

Type: Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerQueryParameters

### 3.2.5.237.2.2 ObjectPath Methods

None.

## 3.2.5.238

### Microsoft.SharePoint.ApplicationPages.PickerQuery.PeoplePickerWebServiceInterface

**TypeId:** {8A000BC7-5D42-4C47-AF0B-3DD25B28D26F}

**ShortName:** SP.UI.ApplicationPages.PeoplePickerWebServiceInterface

Specifies an interface that can be used to query principals (1). [<239>](#)

### 3.2.5.238.1 Properties

#### 3.2.5.238.1.1 Scalar Properties

None.

#### 3.2.5.238.1.2 ObjectPath Properties

None.

## 3.2.5.238.2 Methods

### 3.2.5.238.2.1 Scalar Methods

#### 3.2.5.238.2.1.1 GetSearchResults

This method is a static CSOM method.

**Return Type:** CSOM String

Specifies a **JSON** formatted CSOM String of principals (1) found in the search.

**Parameters:**

*searchPattern*: Specifies a pattern used to search for principals (1). The value is implementation specific.

Type: CSOM String

*providerID*: The identifier of a claims provider.

Type: CSOM String

*hierarchyNodeID*: The identifier of a node in the hierarchy. The search **MUST** be conducted under this node.

Type: CSOM String

*entityTypes*: The type of principals (1) to search for.

Type: CSOM String

This value **MUST** be a comma-separated list of principal (1) names.

#### 3.2.5.238.2.1.2 GetSearchResultsByHierarchy

This method is a static CSOM method.

**Return Type:** CSOM String

Specifies a JSON formatted CSOM String of principals (1) found in the search grouped by hierarchy.

**Parameters:**

*providerID*: The identifier of a claims provider.

Type: CSOM String

*hierarchyNodeID*: The identifier of a node in the hierarchy. The search **MUST** be conducted under this node.

Type: CSOM String

*entityTypes*: The type of principals (1) to search for.

Type: CSOM String

This value **MUST** be a comma-separated list of principal (1) names.

*contextUrl*: The URL to use as context when searching for principals (1).

Type: CSOM String

### 3.2.5.238.2.2 ObjectPath Methods

None.

### 3.2.5.239 Microsoft.SharePoint.Client.RelatedFieldExtendedData

**TypeId**: {45FBCB1B-F734-4A96-86FE-836835C605F0}

**ShortName**: SP.RelatedFieldExtendedData

Specifies properties of a relationship lookup field. <240>

#### 3.2.5.239.1 Properties

##### 3.2.5.239.1.1 Scalar Properties

###### 3.2.5.239.1.1.1 FieldId

**Type**: CSOM GUID

**Accessibility**: Read Only

Specifies the field (2) identifier of the relationship lookup field.

###### 3.2.5.239.1.1.2 ListId

**Type**: CSOM GUID

**Accessibility**: Read Only

Specifies the list (1) identifier of the relationship lookup field.

###### 3.2.5.239.1.1.3 ListImageUrl

**Type**: CSOM String

**Accessibility**: Read Only

Specifies the URL for the icon of the target list (1).

It MUST NOT be NULL. Its length MUST be equal to or less than 255. It MUST be a server-relative URL or an absolute URL.

###### 3.2.5.239.1.1.4 ResolvedListTitle

**Type**: CSOM String

**Accessibility**: Read Only

Specifies the resolved titles of the relationship lookup field and the target list(1).

### 3.2.5.239.1.1.5 ToolTipDescription

**Type:** CSOM String

**Accessibility:** Read Only

Specifies the description of the relationship lookup field and the target list(1) to be displayed on the **ToolTip**.

### 3.2.5.239.1.1.6 WebId

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies the identifier of the site (2) containing the target list (1) for the relationship lookup field.

### 3.2.5.239.1.2 ObjectPath Properties

None.

### 3.2.5.239.2 Methods

#### 3.2.5.239.2.1 Scalar Methods

None.

#### 3.2.5.239.2.2 ObjectPath Methods

None.

### 3.2.5.240 Microsoft.SharePoint.Client.RelatedFieldExtendedDataCollection

**TypeId:** {32ED187C-003C-413F-9799-1A2822ADE931}

**ShortName:** SP.RelatedFieldExtendedDataCollection

Specifies a collection of objects (1) that store properties of relationship lookup fields. <241>

#### 3.2.5.240.1 Properties

##### 3.2.5.240.1.1 Scalar Properties

None.

##### 3.2.5.240.1.2 ObjectPath Properties

None.

#### 3.2.5.240.2 Methods

##### 3.2.5.240.2.1 Scalar Methods

None.



### 3.2.5.240.2.2 ObjectPath Methods

None.

### 3.2.5.241 Microsoft.SharePoint.Client.ObjectSharingInformation

**TypeId:** {E7DAE9F6-8CA5-4286-92C8-61941D774C44}

**ShortName:** SP.ObjectSharingInformation

Provides information about the sharing state of a securable object. [<242>](#)

#### 3.2.5.241.1 Properties

##### 3.2.5.241.1.1 Scalar Properties

###### 3.2.5.241.1.1.1 IsSharedWithCurrentUser

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the securable object is shared with the user making the current request.

###### 3.2.5.241.1.1.2 IsSharedWithGuest

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the securable object can be accessed by an anonymous user.

###### 3.2.5.241.1.1.3 IsSharedWithMany

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the securable object is shared with at least 30 users or with at least one security group.

###### 3.2.5.241.1.1.4 IsSharedWithSecurityGroup

**Type:** CSOM Boolean

**Accessibility:** Read Only

Specifies whether the securable object is shared with at least one security group.

##### 3.2.5.241.1.2 ObjectPath Properties

None.

### 3.2.5.241.2 Methods

#### 3.2.5.241.2.1 Scalar Methods

None.

#### 3.2.5.241.2.2 ObjectPath Methods

##### 3.2.5.241.2.2.1 GetObjectSharingInformation

This method is a static CSOM method.

**Return Type:** Microsoft.SharePoint.Client.ObjectSharingInformation

Specifies information about the sharing state for a given securable object.

**Parameters:**

*securableObject*: Specifies the securable object for which to obtain sharing information.

Type: Microsoft.SharePoint.Client.SecurableObject

*excludeCurrentUser*: Specifies whether the returned ObjectSharingInformation should exclude information about the user making the request.

Type: CSOM Boolean

*excludeSiteAdmin*: Specifies whether the returned ObjectSharingInformation should exclude information about users who are site admins.

Type: CSOM Boolean

### 3.2.5.242 Microsoft.SharePoint.Client.PushNotificationSubscriber

**TypeId:** {1489ADD2-5D3A-4DE8-9445-49259462DCEB}

**ShortName:** SP.PushNotificationSubscriber

Specifies a push notification subscriber. [<243>](#).

#### 3.2.5.242.1 Properties

##### 3.2.5.242.1.1 Scalar Properties

###### 3.2.5.242.1.1.1 CustomArgs

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies a custom arguments string that represents the state of the notifications subscription. This string can be used by the application logic to differentiate between its notification subscribers for different kinds of notifications.

### **3.2.5.242.1.1.2 DeviceAppInstanceId**

**Type:** CSOM GUID

**Accessibility:** Read Only

Specifies a device app instance identifier.

### **3.2.5.242.1.1.3 LastModifiedTimeStamp**

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the time and date when the subscriber was last updated.

### **3.2.5.242.1.1.4 RegistrationTimeStamp**

**Type:** CSOM DateTime

**Accessibility:** Read Only

Specifies the time and date when the subscriber registered for push notifications.

### **3.2.5.242.1.1.5 ServiceToken**

**Type:** CSOM String

**Accessibility:** Read/Write

Specifies the delivery channel URI for push notifications.

It MUST NOT be NULL. It MUST NOT be empty.

### **3.2.5.242.1.1.6 SubscriberType**

**Type:** CSOM Int32

**Accessibility:** Read/Write

Specifies the type of the subscriber.

## **3.2.5.242.1.2 ObjectPath Properties**

### **3.2.5.242.1.2.1 User**

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user for the push notification subscriber.

## 3.2.5.242.2 Methods

### 3.2.5.242.2.1 Scalar Methods

#### 3.2.5.242.2.1.1 Update

**Return Type:** None

Updates the phone subscription information in the store with the changes made to the instance.

**Parameters:** None

### 3.2.5.242.2.2 ObjectPath Methods

None.

## 3.2.5.243 Microsoft.SharePoint.Client.PushNotificationSubscriberCollection

**TypeId:** {99676B16-B4C9-429A-B3D9-DE883C42C4D5}

**ShortName:** SP.PushNotificationSubscriberCollection

Specifies a collection of push notification subscribers. [<244>](#)

### 3.2.5.243.1 Properties

#### 3.2.5.243.1.1 Scalar Properties

None.

#### 3.2.5.243.1.2 ObjectPath Properties

None.

### 3.2.5.243.2 Methods

#### 3.2.5.243.2.1 Scalar Methods

None.

#### 3.2.5.243.2.2 ObjectPath Methods

##### 3.2.5.243.2.2.1 GetByStoreId

**Return Type:** Microsoft.SharePoint.Client.PushNotificationSubscriber

Returns the push notification subscriber from the specified store identifier.

**Parameters:**

*id*: Store identifier for the notification subscribe.r

Type: CSOM String

### **3.2.6 Timer Events**

None.

### **3.2.7 Other Local Events**

None.

Preliminary

## 4 Protocol Examples

### 4.1 Get the Title of a Web

In this example, the title of a site (2) is retrieved by using the **Web** object (1) obtained from a **Context**. The operation is summarized in the following steps.

1. Get the context from the protocol server (2) that corresponds to the URL where the service is called.
2. Get the associated **Web** object (1) from the context.
3. Request the properties for the associated **Web** object (1).

#### Request:

```
<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0"
LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="2" ObjectPathId="1" />
    <ObjectPath Id="4" ObjectPathId="3" />
    <Query Id="5" ObjectPathId="3">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
  </Actions>
  <ObjectPaths>
    <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
    <Property Id="3" ParentId="1" Name="Web" />
  </ObjectPaths></Request>
```

#### Response:

```
[
  {
    "SchemaVersion": "14.0.0.0",
    "LibraryVersion": "14.0.4104.1000",
    "ErrorInfo": null
  }, 2, {
    "IsNull": false
  }, 4, {
    "IsNull": false
  }, 5, {
    "_ObjectType_": "SP.Web",
    "_ObjectIdentity_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268",
    "Description": "",
    "Created": "\/Date(2009,4,18,20,50,9,0)\/",
    "LastItemModifiedDate": "\/Date(2009,4,18,21,28,50,0)\/",
    "RecycleBinEnabled": true,
    "Title": "4104",
    "ServerRelativeUrl": "\u002f",
    "Id": "\/Guid(eb66d01f-d638-41f8-81d7-1a58dd459268)\/",
    "SyndicationEnabled": true,
    "AllowRssFeeds": true,
```

```

    "QuickLaunchEnabled": true,
    "TreeViewEnabled": false,
    "Language": 1033,
    "UIVersion": 4,
    "UIVersionConfigurationEnabled": false,
    "AllowDesignerForCurrentUser": true,
    "AllowRevertFromTemplateForCurrentUser": false,
    "AllowMasterPageEditingForCurrentUser": false,
    "ShowUrlStructureForCurrentUser": false
  }
]

```

## 4.2 Update the Description of a List

In this example, the description of an existing **List** object (1) is updated by using the following steps.

1. Get the context from the protocol server (2) that corresponds to the URL where the service is called.
2. Get the associated **Web** object (1) from the context.
3. Get the **List** object (1) from the **Web** object (1).
4. Update the description of the **List** object (1).

### Request:

```

<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0"
LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="2" ObjectPathId="1" />
    <ObjectPath Id="4" ObjectPathId="3" />
    <ObjectPath Id="6" ObjectPathId="5" />
    <ObjectPath Id="8" ObjectPathId="7" />
    <ObjectIdentityQuery Id="9" ObjectPathId="7" />
    <SetProperty Id="10" ObjectPathId="7" Name="Description">
      <Parameter Type="String">The new description</Parameter>
    </SetProperty>
    <Method Name="Update" Id="11" ObjectPathId="7" />
  </Actions>
  <ObjectPaths>
    <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
    <Property Id="3" ParentId="1" Name="Web" />
    <Property Id="5" ParentId="3" Name="Lists" />
    <Method Id="7" ParentId="5" Name="GetByTitle">
      <Parameters>
        <Parameter Type="String">My List</Parameter>
      </Parameters>
    </Method>
  </ObjectPaths></Request>

```

### Response:

```
[
```

```

{
  "SchemaVersion": "14.0.0.0", "LibraryVersion": "14.0.4104.1000", "ErrorInfo": null
}, 2, {
  "IsNull": false
}, 4, {
  "IsNull": false
}, 6, {
  "IsNull": false
}, 8, {
  "IsNull": false
}, 9, {
  "_ObjectIdentity_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:c3a072d4-45d2-4db0-a4ac-78fe0a12b5fc"
}
]

```

### 4.3 Add a List to a ListCollection

In this example, a new **List** object (1) is added to an existing **ListCollection** object (1). The following steps provide an overview of adding a **List** to a **ListCollection** object (1).

1. Get the context from the server (2) that corresponds to the URL where the service is called.
2. Get the **Web** object (1) from the context.
3. Get the **ListCollection** object (1) from the **Web** object (1).
4. Create new **List** object (1).
5. Add **List** to the **ListCollection** for the **Web**.

#### Request:

```

<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0"
LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="2" ObjectPathId="1" />
    <ObjectPath Id="4" ObjectPathId="3" />
    <ObjectPath Id="6" ObjectPathId="5" />
    <ObjectPath Id="8" ObjectPathId="7" />
    <ObjectIdentityQuery Id="9" ObjectPathId="7" />
  </Actions>
  <ObjectPaths>
    <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
    <Property Id="3" ParentId="1" Name="Web" />
    <Property Id="5" ParentId="3" Name="Lists" />
    <Method Id="7" ParentId="5" Name="Add">
      <Parameters>
        <Parameter TypeId="{e247b7fc-095e-4ea4-a4c9-c5d373723d8c}">
          <Property Name="Title" Type="String">My New List</Property>
          <Property Name="Description" Type="Null" />
          <Property Name="Url" Type="Null" />
          <Property Name="TemplateFeatureId" Type="Guid">{00000000-0000-0000-0000-0000-000000000000}</Property>
          <Property Name="TemplateType" Type="Int32">101</Property>
          <Property Name="DocumentTemplateType" Type="Int32">0</Property>
          <Property Name="CustomSchemaXml" Type="Null" />
        </Parameter>
      </Parameters>
    </Method>
  </ObjectPaths>
</Request>

```



```

        <Property Name="QuickLaunchOption" Type="Enum">0</Property>
        <Property Name="DataSourceProperties" Type="Dictionary" />
    </Parameter>
</Parameters>
</Method>
</ObjectPaths>
</Request>

```

### Response:

```

[
  {
    "SchemaVersion":"14.0.0.0","LibraryVersion":"14.0.4104.1000","ErrorInfo":null
  },2,{
    "IsNull":false
  },4,{
    "IsNull":false
  },6,{
    "IsNull":false
  },8,{
    "IsNull":false
  },9,{
    "_ObjectIdentity_":"740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:6a969bdb-9373-436b-b46e-20ba0bd00274"
  }
]

```

## 4.4 Add a Lookup Field

In this example, a new lookup field is added to an existing list (1) that points to another existing list (1). The following steps provide an overview of this operation.

1. Get the context from the protocol server (2) that corresponds to the URL where the service is called.
2. Get the associated **Web** object (1) from the context.
3. Get the necessary list (1) information from **Web** (Request 1).
4. Add a lookup field to "List 1" that points to "List 2" (Request 2).

### Request 1:

```

<Request AddExpandFieldTypeSuffix="true" SchemaVersion="14.0.0.0"
LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="2" ObjectPathId="1" />
    <ObjectPath Id="4" ObjectPathId="3" />
    <ObjectPath Id="6" ObjectPathId="5" />
    <ObjectPath Id="8" ObjectPathId="7" />
    <ObjectIdentityQuery Id="9" ObjectPathId="7" />
    <ObjectPath Id="11" ObjectPathId="10" />
    <ObjectIdentityQuery Id="12" ObjectPathId="10" />
    <Query Id="13" ObjectPathId="10">

```

```

    <Query SelectAllProperties="false">
      <Properties>
        <Property Name="Id" ScalarProperty="true" />
      </Properties>
    </Query>
  </Query>
</Actions>
<ObjectPaths>
  <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
  <Property Id="3" ParentId="1" Name="Web" />
  <Property Id="5" ParentId="3" Name="Lists" />
  <Method Id="7" ParentId="5" Name="GetByTitle">
    <Parameters>
      <Parameter Type="String">List 1</Parameter>
    </Parameters>
  </Method>
  <Method Id="10" ParentId="5" Name="GetByTitle">
    <Parameters>
      <Parameter Type="String">List 2</Parameter>
    </Parameters>
  </Method>
</ObjectPaths>
</Request>

```

### Response 1:

```

[
  {
    "SchemaVersion": "14.0.0.0", "LibraryVersion": "14.0.4104.1000", "ErrorInfo": null
  }, 2, {
    "IsNull": false
  }, 4, {
    "IsNull": false
  }, 6, {
    "IsNull": false
  }, 8, {
    "IsNull": false
  }, 9, {
    "_ObjectIdentity_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:6c4bd5ac-b10c-46f0-9553-be32439987d7"
  }, 11, {
    "IsNull": false
  }, 12, {
    "_ObjectIdentity_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:da4af6bf-43e6-463a-a95b-ece4183a7538"
  }, 13, {
    "_ObjectType_": "SP.List", "_ObjectIdentity_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:da4af6bf-43e6-463a-a95b-ece4183a7538", "_ObjectVersion_": "0", "Id": "\\Guid(da4af6bf-43e6-463a-a95b-ece4183a7538)\"
  }
]

```

### Request 2:

```

<Request AddExpandFieldTypeSuffix="true" SchemaVersion="14.0.0.0"
LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">

```

```

<Actions>
  <ObjectPath Id="18" ObjectPathId="17" />
  <ObjectPath Id="20" ObjectPathId="19" />
  <ObjectIdentityQuery Id="21" ObjectPathId="19" />
</Actions>
<ObjectPaths>
  <Property Id="17" ParentId="7" Name="Fields" />
  <Method Id="19" ParentId="17" Name="AddFieldAsXml">
    <Parameters>
      <Parameter Type="String">&lt;Field Type="Lookup" List="da4af6bf-43e6-463a-a95b-
ece4183a7538" ShowField="Title" DisplayName="Lookup Field" Description="Lookup field created
using CSOM." Required="FALSE" Indexed="FALSE" /&gt;</Parameter>
      <Parameter Type="Boolean">true</Parameter>
      <Parameter Type="Enum">0</Parameter>
    </Parameters>
  </Method>
  <Identity Id="7" Name="740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-
1a58dd459268:list:6c4bd5ac-b10c-46f0-9553-be32439987d7" />
</ObjectPaths></Request>

```

## Response 2:

```

[
  {
    "SchemaVersion": "14.0.0.0", "LibraryVersion": "14.0.4104.1000", "ErrorInfo": null
  }, 18, {
    "IsNull": false
  }, 20, {
    "IsNull": false
  }, 21, {
    "_ObjectIdentity_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-
1a58dd459268:list:6c4bd5ac-b10c-46f0-9553-be32439987d7:field:c84fe21c-7666-4129-85f8-
1a317da06017"
  }
]

```

## 4.5 Attempt to Delete a Site With an Account That Does Not Have Permissions for the Operation

The protocol client attempts to delete a site (2) object (1) on the protocol server (2). However, the current user does not have permissions to perform this operation, so deleting a site (2) causes an error. The protocol server (2) returns a **CSOM error**. The following steps provide an overview of this operation.

1. Get the context to a **Site** object (1).
2. Get the **Web** object (1) from the **Site** object (1).
3. Execute **delete** operation on the **Web** object (1).

### Request:

```

<Request AddExpandFieldTypeSuffix="true" SchemaVersion="14.0.0.0"
LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>

```

```
<ObjectPath Id="2" ObjectPathId="1" />
<ObjectPath Id="4" ObjectPathId="3" />
<Method Name="DeleteObject" Id="5" ObjectPathId="3" />
</Actions>
<ObjectPaths>
  <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
  <Property Id="3" ParentId="1" Name="Web" />
</ObjectPaths></Request>
```

**Response:**

```
[
  {
    "SchemaVersion": "14.0.0.0",
    "LibraryVersion": "14.0.4111.1000",
    "ErrorInfo":
      {
        "ErrorMessage": "Access is denied.",
        "ErrorValue": null
        "ErrorCode": -2147024891,
        "ErrorTypeName": "System.UnauthorizedAccessException"
      }
  }
]
```

## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

None.

Preliminary

## 6 Appendix A: Product Behavior

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

- Microsoft® SharePoint® Foundation 2010
- Microsoft® SharePoint® Foundation 2013 Preview

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

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

[<1> Section 3.2.1.2:](#) This relationship is available only in SharePoint Foundation 2013 Preview.

[<2> Section 3.2.5.3.1.5:](#) The **DiscussionBoard** base type is deprecated. SharePoint Foundation 2010 uses the **GenericList** base type for discussion boards.

[<3> Section 3.2.5.5.1.16:](#) This field value is available only in SharePoint Foundation 2013 Preview.

[<4> Section 3.2.5.27.1.1.17:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<5> Section 3.2.5.27.1.1.18:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<6> Section 3.2.5.35.2.2.1:](#) SharePoint Foundation 2010 will throw System.ArgumentException (-2147024809 "featdefScope") for FeatureDefinitionScope.Farm.

[<7> Section 3.2.5.37.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<8> Section 3.2.5.38.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<9> Section 3.2.5.40.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<10> Section 3.2.5.41.2.2.7:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<11> Section 3.2.5.41.2.2.8:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<12> Section 3.2.5.41.2.2.9:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<13> Section 3.2.5.42.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<14> Section 3.2.5.43.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<15> Section 3.2.5.44.1.1.28:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<16> Section 3.2.5.44.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<17> Section 3.2.5.45.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<18> Section 3.2.5.46.1.1.5:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<19> Section 3.2.5.47.2.2.2:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<20> Section 3.2.5.49.1.1.33:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<21> Section 3.2.5.49.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<22> Section 3.2.5.51.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<23> Section 3.2.5.52.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<24> Section 3.2.5.53.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<25> Section 3.2.5.54.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<26> Section 3.2.5.57.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<27> Section 3.2.5.58.1.33:](#) This field value is available only in SharePoint Foundation 2013 Preview.

[<28> Section 3.2.5.58.1.34:](#) This field value is available only in SharePoint Foundation 2013 Preview.

[<29> Section 3.2.5.59.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<30> Section 3.2.5.61.2.1.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<31> Section 3.2.5.64.1.1.16:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<32> Section 3.2.5.64.2.1.11:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<33> Section 3.2.5.64.2.1.12:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<34> Section 3.2.5.66.1.1.4:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<35> Section 3.2.5.68.1.1.4:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<36> Section 3.2.5.70.2.1.1:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<37> Section 3.2.5.71.2.2.1:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<38> Section 3.2.5.72.1.2.4:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<39> Section 3.2.5.72.1.2.5:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<40> Section 3.2.5.73.2.2.2:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<41> Section 3.2.5.76.1.1.15:](#) This property is available only in SharePoint Foundation 2013 Preview.

[<42> Section 3.2.5.77.2.1.2:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<43> Section 3.2.5.77.2.1.3:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<44> Section 3.2.5.77.2.2.3:](#) This method is available only in SharePoint Foundation 2013 Preview.

[<45> Section 3.2.5.79.1.1.45:](#) This property is available only in SharePoint Foundation 2013 Preview.

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## 7 Change Tracking

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

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