**[MS-CSOMSPT]:**

**SharePoint Client-Side Object Model Protocol**

Intellectual Property Rights Notice for Open Specifications Documentation

* **Technical Documentation.** Microsoft publishes Open Specifications documentation (“this documentation”) for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
* **Copyrights**. This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
* **No Trade Secrets**. Microsoft does not claim any trade secret rights in this documentation.
* **Patents**. Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft [Open Specifications Promise](http://go.microsoft.com/fwlink/?LinkId=214445) or the [Microsoft Community Promise](http://go.microsoft.com/fwlink/?LinkId=214448). If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting [iplg@microsoft.com](mailto:iplg@microsoft.com).
* **License Programs**. To see all of the protocols in scope under a specific license program and the associated patents, visit the [Patent Map](https://msdn.microsoft.com/en-us/openspecifications/dn750984).
* **Trademarks**. The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit [www.microsoft.com/trademarks](http://www.microsoft.com/trademarks).
* **Fictitious Names**. The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

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

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

**Support.** For questions and support, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 7/13/2009 | 0.1 | Major | Initial Availability |
| 8/28/2009 | 0.2 | Editorial | Revised and edited the technical content |
| 11/6/2009 | 0.3 | Editorial | Revised and edited the technical content |
| 2/19/2010 | 1.0 | Major | Updated and revised the technical content |
| 3/31/2010 | 1.01 | Editorial | Revised and edited the technical content |
| 4/30/2010 | 1.02 | Minor | Updated the technical content |
| 6/7/2010 | 1.03 | Editorial | Revised and edited the technical content |
| 6/29/2010 | 1.04 | Editorial | Changed language and formatting in the technical content. |
| 7/23/2010 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/27/2010 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/15/2010 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 12/17/2010 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/18/2011 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/10/2011 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/20/2012 | 2.0 | Major | Significantly changed the technical content. |
| 4/11/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/16/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/12/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/8/2012 | 3.0 | Major | Significantly changed the technical content. |
| 2/11/2013 | 4.0 | Major | Significantly changed the technical content. |
| 7/30/2013 | 5.0 | Major | Significantly changed the technical content. |
| 11/18/2013 | 6.0 | Major | Significantly changed the technical content. |
| 2/10/2014 | 6.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 4/30/2014 | 6.1 | Minor | Clarified the meaning of the technical content. |
| 7/31/2014 | 7.0 | Major | Significantly changed the technical content. |
| 10/30/2014 | 7.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/26/2016 | 8.0 | Major | Significantly changed the technical content. |
| 7/1/2016 | 9.0 | Major | Significantly changed the technical content. |
| 10/13/2016 | 10.0 | Major | Significantly changed the technical content. |
| 11/14/2016 | 10.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 8/25/2017 | 11.0 | Major | Significantly changed the technical content. |

Table of Contents

[1 Introduction 92](#_Toc491430483)

[1.1 Glossary 92](#_Toc491430484)

[1.2 References 109](#_Toc491430485)

[1.2.1 Normative References 109](#_Toc491430486)

[1.2.2 Informative References 110](#_Toc491430487)

[1.3 Overview 110](#_Toc491430488)

[1.4 Relationship to Other Protocols 111](#_Toc491430489)

[1.5 Prerequisites/Preconditions 111](#_Toc491430490)

[1.6 Applicability Statement 111](#_Toc491430491)

[1.7 Versioning and Capability Negotiation 112](#_Toc491430492)

[1.8 Vendor-Extensible Fields 112](#_Toc491430493)

[1.9 Standards Assignments 112](#_Toc491430494)

[2 Messages 113](#_Toc491430495)

[2.1 Transport 113](#_Toc491430496)

[2.2 Message Syntax 113](#_Toc491430497)

[2.2.1 Common Exceptions 113](#_Toc491430498)

[3 Protocol Details 114](#_Toc491430499)

[3.1 Common Details 114](#_Toc491430500)

[3.2 Server Details 114](#_Toc491430501)

[3.2.1 Abstract Data Model 114](#_Toc491430502)

[3.2.1.1 Parent Type 114](#_Toc491430503)

[3.2.1.2 Abstract Data Model for REST List Items Support 115](#_Toc491430504)

[3.2.1.3 Field Type to Client Scalar Property Type 116](#_Toc491430505)

[3.2.2 Timers 116](#_Toc491430506)

[3.2.3 Initialization 117](#_Toc491430507)

[3.2.4 Higher-Layer Triggered Events 117](#_Toc491430508)

[3.2.5 Message Processing Events and Sequencing Rules 117](#_Toc491430509)

[3.2.5.1 Microsoft.SharePoint.Client.AddFieldOptions 117](#_Toc491430510)

[3.2.5.1.1 Field Values 117](#_Toc491430511)

[3.2.5.1.1.1 DefaultValue 117](#_Toc491430512)

[3.2.5.1.1.2 AddToDefaultContentType 117](#_Toc491430513)

[3.2.5.1.1.3 AddToNoContentType 117](#_Toc491430514)

[3.2.5.1.1.4 AddToAllContentTypes 117](#_Toc491430515)

[3.2.5.1.1.5 AddFieldInternalNameHint 117](#_Toc491430516)

[3.2.5.1.1.6 AddFieldToDefaultView 117](#_Toc491430517)

[3.2.5.1.1.7 AddFieldCheckDisplayName 118](#_Toc491430518)

[3.2.5.2 Microsoft.SharePoint.Client.BasePermissions 118](#_Toc491430519)

[3.2.5.2.1 Properties 118](#_Toc491430520)

[3.2.5.2.1.1 Scalar Properties 118](#_Toc491430521)

[3.2.5.2.1.1.1 High 118](#_Toc491430522)

[3.2.5.2.1.1.2 Low 118](#_Toc491430523)

[3.2.5.2.1.2 ObjectPath Properties 120](#_Toc491430524)

[3.2.5.3 Microsoft.SharePoint.Client.BaseType 120](#_Toc491430525)

[3.2.5.3.1 Field Values 120](#_Toc491430526)

[3.2.5.3.1.1 None 121](#_Toc491430527)

[3.2.5.3.1.2 GenericList 121](#_Toc491430528)

[3.2.5.3.1.3 DocumentLibrary 121](#_Toc491430529)

[3.2.5.3.1.4 Unused 121](#_Toc491430530)

[3.2.5.3.1.5 DiscussionBoard 121](#_Toc491430531)

[3.2.5.3.1.6 Survey 121](#_Toc491430532)

[3.2.5.3.1.7 Issue 121](#_Toc491430533)

[3.2.5.4 Microsoft.SharePoint.Client.BrowserFileHandling 121](#_Toc491430534)

[3.2.5.4.1 Field Values 121](#_Toc491430535)

[3.2.5.4.1.1 Permissive 121](#_Toc491430536)

[3.2.5.4.1.2 Strict 121](#_Toc491430537)

[3.2.5.5 Microsoft.SharePoint.Client.CalendarType 122](#_Toc491430538)

[3.2.5.5.1 Field Values 122](#_Toc491430539)

[3.2.5.5.1.1 None 122](#_Toc491430540)

[3.2.5.5.1.2 Gregorian 122](#_Toc491430541)

[3.2.5.5.1.3 Japan 122](#_Toc491430542)

[3.2.5.5.1.4 Taiwan 122](#_Toc491430543)

[3.2.5.5.1.5 Korea 122](#_Toc491430544)

[3.2.5.5.1.6 Hijri 122](#_Toc491430545)

[3.2.5.5.1.7 Thai 122](#_Toc491430546)

[3.2.5.5.1.8 Hebrew 122](#_Toc491430547)

[3.2.5.5.1.9 GregorianMEFrench 123](#_Toc491430548)

[3.2.5.5.1.10 GregorianArabic 123](#_Toc491430549)

[3.2.5.5.1.11 GregorianXLITEnglish 123](#_Toc491430550)

[3.2.5.5.1.12 GregorianXLITFrench 123](#_Toc491430551)

[3.2.5.5.1.13 KoreaJapanLunar 123](#_Toc491430552)

[3.2.5.5.1.14 ChineseLunar 123](#_Toc491430553)

[3.2.5.5.1.15 SakaEra 123](#_Toc491430554)

[3.2.5.5.1.16 UmAlQura 123](#_Toc491430555)

[3.2.5.6 Microsoft.SharePoint.Client.CamlQuery 123](#_Toc491430556)

[3.2.5.6.1 Properties 123](#_Toc491430557)

[3.2.5.6.1.1 Scalar Properties 124](#_Toc491430558)

[3.2.5.6.1.1.1 DatesInUtc 124](#_Toc491430559)

[3.2.5.6.1.1.2 FolderServerRelativeUrl 124](#_Toc491430560)

[3.2.5.6.1.1.3 ListItemCollectionPosition 124](#_Toc491430561)

[3.2.5.6.1.1.4 ViewXml 124](#_Toc491430562)

[3.2.5.6.1.2 ObjectPath Properties 124](#_Toc491430563)

[3.2.5.7 Microsoft.SharePoint.Client.Change 124](#_Toc491430564)

[3.2.5.7.1 Properties 124](#_Toc491430565)

[3.2.5.7.1.1 Scalar Properties 124](#_Toc491430566)

[3.2.5.7.1.1.1 ChangeToken 124](#_Toc491430567)

[3.2.5.7.1.1.2 ChangeType 125](#_Toc491430568)

[3.2.5.7.1.1.3 SiteId 125](#_Toc491430569)

[3.2.5.7.1.1.4 Time 125](#_Toc491430570)

[3.2.5.7.1.2 ObjectPath Properties 125](#_Toc491430571)

[3.2.5.7.2 Methods 125](#_Toc491430572)

[3.2.5.7.2.1 Scalar Methods 125](#_Toc491430573)

[3.2.5.7.2.2 ObjectPath Methods 125](#_Toc491430574)

[3.2.5.8 Microsoft.SharePoint.Client.ChangeAlert 125](#_Toc491430575)

[3.2.5.8.1 Properties 125](#_Toc491430576)

[3.2.5.8.1.1 Scalar Properties 125](#_Toc491430577)

[3.2.5.8.1.1.1 AlertId 125](#_Toc491430578)

[3.2.5.8.1.1.2 ChangeToken 126](#_Toc491430579)

[3.2.5.8.1.1.3 ChangeType 126](#_Toc491430580)

[3.2.5.8.1.1.4 SiteId 126](#_Toc491430581)

[3.2.5.8.1.1.5 Time 126](#_Toc491430582)

[3.2.5.8.1.1.6 WebId 126](#_Toc491430583)

[3.2.5.8.1.2 ObjectPath Properties 126](#_Toc491430584)

[3.2.5.8.2 Methods 127](#_Toc491430585)

[3.2.5.8.2.1 Scalar Methods 127](#_Toc491430586)

[3.2.5.8.2.2 ObjectPath Methods 127](#_Toc491430587)

[3.2.5.9 Microsoft.SharePoint.Client.ChangeCollection 127](#_Toc491430588)

[3.2.5.9.1 Properties 127](#_Toc491430589)

[3.2.5.9.1.1 Scalar Properties 127](#_Toc491430590)

[3.2.5.9.1.2 ObjectPath Properties 127](#_Toc491430591)

[3.2.5.9.2 Methods 127](#_Toc491430592)

[3.2.5.9.2.1 Scalar Methods 127](#_Toc491430593)

[3.2.5.9.2.2 ObjectPath Methods 127](#_Toc491430594)

[3.2.5.10 Microsoft.SharePoint.Client.ChangeContentType 127](#_Toc491430595)

[3.2.5.10.1 Properties 127](#_Toc491430596)

[3.2.5.10.1.1 Scalar Properties 127](#_Toc491430597)

[3.2.5.10.1.1.1 ChangeToken 127](#_Toc491430598)

[3.2.5.10.1.1.2 ChangeType 128](#_Toc491430599)

[3.2.5.10.1.1.3 ContentTypeId 128](#_Toc491430600)

[3.2.5.10.1.1.4 SiteId 128](#_Toc491430601)

[3.2.5.10.1.1.5 Time 128](#_Toc491430602)

[3.2.5.10.1.1.6 WebId 128](#_Toc491430603)

[3.2.5.10.1.2 ObjectPath Properties 128](#_Toc491430604)

[3.2.5.10.2 Methods 128](#_Toc491430605)

[3.2.5.10.2.1 Scalar Methods 128](#_Toc491430606)

[3.2.5.10.2.2 ObjectPath Methods 129](#_Toc491430607)

[3.2.5.11 Microsoft.SharePoint.Client.ChangeField 129](#_Toc491430608)

[3.2.5.11.1 Properties 129](#_Toc491430609)

[3.2.5.11.1.1 Scalar Properties 129](#_Toc491430610)

[3.2.5.11.1.1.1 ChangeToken 129](#_Toc491430611)

[3.2.5.11.1.1.2 ChangeType 129](#_Toc491430612)

[3.2.5.11.1.1.3 FieldId 129](#_Toc491430613)

[3.2.5.11.1.1.4 SiteId 129](#_Toc491430614)

[3.2.5.11.1.1.5 Time 129](#_Toc491430615)

[3.2.5.11.1.1.6 WebId 130](#_Toc491430616)

[3.2.5.11.1.2 ObjectPath Properties 130](#_Toc491430617)

[3.2.5.11.2 Methods 130](#_Toc491430618)

[3.2.5.11.2.1 Scalar Methods 130](#_Toc491430619)

[3.2.5.11.2.2 ObjectPath Methods 130](#_Toc491430620)

[3.2.5.12 Microsoft.SharePoint.Client.ChangeFile 130](#_Toc491430621)

[3.2.5.12.1 Properties 130](#_Toc491430622)

[3.2.5.12.1.1 Scalar Properties 130](#_Toc491430623)

[3.2.5.12.1.1.1 ChangeToken 130](#_Toc491430624)

[3.2.5.12.1.1.2 ChangeType 131](#_Toc491430625)

[3.2.5.12.1.1.3 SiteId 131](#_Toc491430626)

[3.2.5.12.1.1.4 Time 131](#_Toc491430627)

[3.2.5.12.1.1.5 UniqueId 131](#_Toc491430628)

[3.2.5.12.1.1.6 WebId 131](#_Toc491430629)

[3.2.5.12.1.2 ObjectPath Properties 132](#_Toc491430630)

[3.2.5.12.2 Methods 132](#_Toc491430631)

[3.2.5.12.2.1 Scalar Methods 132](#_Toc491430632)

[3.2.5.12.2.2 ObjectPath Methods 132](#_Toc491430633)

[3.2.5.13 Microsoft.SharePoint.Client.ChangeFolder 132](#_Toc491430634)

[3.2.5.13.1 Properties 132](#_Toc491430635)

[3.2.5.13.1.1 Scalar Properties 132](#_Toc491430636)

[3.2.5.13.1.1.1 ChangeToken 132](#_Toc491430637)

[3.2.5.13.1.1.2 ChangeType 132](#_Toc491430638)

[3.2.5.13.1.1.3 SiteId 132](#_Toc491430639)

[3.2.5.13.1.1.4 Time 132](#_Toc491430640)

[3.2.5.13.1.1.5 UniqueId 133](#_Toc491430641)

[3.2.5.13.1.1.6 WebId 133](#_Toc491430642)

[3.2.5.13.1.2 ObjectPath Properties 133](#_Toc491430643)

[3.2.5.13.2 Methods 133](#_Toc491430644)

[3.2.5.13.2.1 Scalar Methods 133](#_Toc491430645)

[3.2.5.13.2.2 ObjectPath Methods 133](#_Toc491430646)

[3.2.5.14 Microsoft.SharePoint.Client.ChangeGroup 133](#_Toc491430647)

[3.2.5.14.1 Properties 134](#_Toc491430648)

[3.2.5.14.1.1 Scalar Properties 134](#_Toc491430649)

[3.2.5.14.1.1.1 ChangeToken 134](#_Toc491430650)

[3.2.5.14.1.1.2 ChangeType 134](#_Toc491430651)

[3.2.5.14.1.1.3 GroupId 134](#_Toc491430652)

[3.2.5.14.1.1.4 SiteId 134](#_Toc491430653)

[3.2.5.14.1.1.5 Time 134](#_Toc491430654)

[3.2.5.14.1.2 ObjectPath Properties 134](#_Toc491430655)

[3.2.5.14.2 Methods 134](#_Toc491430656)

[3.2.5.14.2.1 Scalar Methods 134](#_Toc491430657)

[3.2.5.14.2.2 ObjectPath Methods 134](#_Toc491430658)

[3.2.5.15 Microsoft.SharePoint.Client.ChangeItem 135](#_Toc491430659)

[3.2.5.15.1 Properties 135](#_Toc491430660)

[3.2.5.15.1.1 Scalar Properties 135](#_Toc491430661)

[3.2.5.15.1.1.1 ChangeToken 135](#_Toc491430662)

[3.2.5.15.1.1.2 ChangeType 135](#_Toc491430663)

[3.2.5.15.1.1.3 Editor 135](#_Toc491430664)

[3.2.5.15.1.1.4 ItemId 135](#_Toc491430665)

[3.2.5.15.1.1.5 ListId 135](#_Toc491430666)

[3.2.5.15.1.1.6 ServerRelativeUrl 136](#_Toc491430667)

[3.2.5.15.1.1.7 SiteId 136](#_Toc491430668)

[3.2.5.15.1.1.8 Time 136](#_Toc491430669)

[3.2.5.15.1.1.9 WebId 136](#_Toc491430670)

[3.2.5.15.1.2 ObjectPath Properties 136](#_Toc491430671)

[3.2.5.15.2 Methods 137](#_Toc491430672)

[3.2.5.15.2.1 Scalar Methods 137](#_Toc491430673)

[3.2.5.15.2.2 ObjectPath Methods 137](#_Toc491430674)

[3.2.5.16 Microsoft.SharePoint.Client.ChangeList 137](#_Toc491430675)

[3.2.5.16.1 Properties 137](#_Toc491430676)

[3.2.5.16.1.1 Scalar Properties 137](#_Toc491430677)

[3.2.5.16.1.1.1 ChangeToken 137](#_Toc491430678)

[3.2.5.16.1.1.2 ChangeType 137](#_Toc491430679)

[3.2.5.16.1.1.3 ListId 137](#_Toc491430680)

[3.2.5.16.1.1.4 SiteId 137](#_Toc491430681)

[3.2.5.16.1.1.5 Time 138](#_Toc491430682)

[3.2.5.16.1.1.6 WebId 138](#_Toc491430683)

[3.2.5.16.1.2 ObjectPath Properties 138](#_Toc491430684)

[3.2.5.16.2 Methods 138](#_Toc491430685)

[3.2.5.16.2.1 Scalar Methods 138](#_Toc491430686)

[3.2.5.16.2.2 ObjectPath Methods 138](#_Toc491430687)

[3.2.5.17 Microsoft.SharePoint.Client.ChangeQuery 138](#_Toc491430688)

[3.2.5.17.1 Properties 138](#_Toc491430689)

[3.2.5.17.1.1 Scalar Properties 138](#_Toc491430690)

[3.2.5.17.1.1.1 Add 139](#_Toc491430691)

[3.2.5.17.1.1.2 Alert 139](#_Toc491430692)

[3.2.5.17.1.1.3 ChangeTokenEnd 139](#_Toc491430693)

[3.2.5.17.1.1.4 ChangeTokenStart 139](#_Toc491430694)

[3.2.5.17.1.1.5 ContentType 139](#_Toc491430695)

[3.2.5.17.1.1.6 DeleteObject 139](#_Toc491430696)

[3.2.5.17.1.1.7 FetchLimit 139](#_Toc491430697)

[3.2.5.17.1.1.8 Field 139](#_Toc491430698)

[3.2.5.17.1.1.9 File 140](#_Toc491430699)

[3.2.5.17.1.1.10 Folder 140](#_Toc491430700)

[3.2.5.17.1.1.11 Group 140](#_Toc491430701)

[3.2.5.17.1.1.12 GroupMembershipAdd 140](#_Toc491430702)

[3.2.5.17.1.1.13 GroupMembershipDelete 140](#_Toc491430703)

[3.2.5.17.1.1.14 Item 140](#_Toc491430704)

[3.2.5.17.1.1.15 LatestFirst 140](#_Toc491430705)

[3.2.5.17.1.1.16 List 141](#_Toc491430706)

[3.2.5.17.1.1.17 Move 141](#_Toc491430707)

[3.2.5.17.1.1.18 Navigation 141](#_Toc491430708)

[3.2.5.17.1.1.19 Rename 141](#_Toc491430709)

[3.2.5.17.1.1.20 Restore 141](#_Toc491430710)

[3.2.5.17.1.1.21 RoleAssignmentAdd 141](#_Toc491430711)

[3.2.5.17.1.1.22 RoleAssignmentDelete 141](#_Toc491430712)

[3.2.5.17.1.1.23 RoleDefinitionAdd 141](#_Toc491430713)

[3.2.5.17.1.1.24 RoleDefinitionDelete 142](#_Toc491430714)

[3.2.5.17.1.1.25 RoleDefinitionUpdate 142](#_Toc491430715)

[3.2.5.17.1.1.26 SecurityPolicy 142](#_Toc491430716)

[3.2.5.17.1.1.27 Site 142](#_Toc491430717)

[3.2.5.17.1.1.28 SystemUpdate 142](#_Toc491430718)

[3.2.5.17.1.1.29 Update 142](#_Toc491430719)

[3.2.5.17.1.1.30 User 142](#_Toc491430720)

[3.2.5.17.1.1.31 View 143](#_Toc491430721)

[3.2.5.17.1.1.32 Web 143](#_Toc491430722)

[3.2.5.17.1.2 ObjectPath Properties 143](#_Toc491430723)

[3.2.5.18 Microsoft.SharePoint.Client.ChangeSite 143](#_Toc491430724)

[3.2.5.18.1 Properties 143](#_Toc491430725)

[3.2.5.18.1.1 Scalar Properties 143](#_Toc491430726)

[3.2.5.18.1.1.1 ChangeToken 143](#_Toc491430727)

[3.2.5.18.1.1.2 ChangeType 143](#_Toc491430728)

[3.2.5.18.1.1.3 SiteId 143](#_Toc491430729)

[3.2.5.18.1.1.4 Time 143](#_Toc491430730)

[3.2.5.18.1.2 ObjectPath Properties 144](#_Toc491430731)

[3.2.5.18.2 Methods 144](#_Toc491430732)

[3.2.5.18.2.1 Scalar Methods 144](#_Toc491430733)

[3.2.5.18.2.2 ObjectPath Methods 144](#_Toc491430734)

[3.2.5.19 Microsoft.SharePoint.Client.ChangeToken 144](#_Toc491430735)

[3.2.5.19.1 Properties 144](#_Toc491430736)

[3.2.5.19.1.1 Scalar Properties 144](#_Toc491430737)

[3.2.5.19.1.1.1 StringValue 144](#_Toc491430738)

[3.2.5.19.1.2 ObjectPath Properties 145](#_Toc491430739)

[3.2.5.20 Microsoft.SharePoint.Client.ChangeType 145](#_Toc491430740)

[3.2.5.20.1 Field Values 145](#_Toc491430741)

[3.2.5.20.1.1 NoChange 145](#_Toc491430742)

[3.2.5.20.1.2 Add 145](#_Toc491430743)

[3.2.5.20.1.3 Update 145](#_Toc491430744)

[3.2.5.20.1.4 DeleteObject 146](#_Toc491430745)

[3.2.5.20.1.5 Rename 146](#_Toc491430746)

[3.2.5.20.1.6 MoveAway 146](#_Toc491430747)

[3.2.5.20.1.7 MoveInto 146](#_Toc491430748)

[3.2.5.20.1.8 Restore 146](#_Toc491430749)

[3.2.5.20.1.9 RoleAdd 146](#_Toc491430750)

[3.2.5.20.1.10 RoleDelete 146](#_Toc491430751)

[3.2.5.20.1.11 RoleUpdate 146](#_Toc491430752)

[3.2.5.20.1.12 AssignmentAdd 146](#_Toc491430753)

[3.2.5.20.1.13 AssignmentDelete 147](#_Toc491430754)

[3.2.5.20.1.14 MemberAdd 147](#_Toc491430755)

[3.2.5.20.1.15 MemberDelete 147](#_Toc491430756)

[3.2.5.20.1.16 SystemUpdate 147](#_Toc491430757)

[3.2.5.20.1.17 Navigation 147](#_Toc491430758)

[3.2.5.20.1.18 ScopeAdd 147](#_Toc491430759)

[3.2.5.20.1.19 ScopeDelete 147](#_Toc491430760)

[3.2.5.20.1.20 ListContentTypeAdd 147](#_Toc491430761)

[3.2.5.20.1.21 ListContentTypeDelete 147](#_Toc491430762)

[3.2.5.20.1.22 Dirty 148](#_Toc491430763)

[3.2.5.21 Microsoft.SharePoint.Client.ChangeUser 148](#_Toc491430764)

[3.2.5.21.1 Properties 148](#_Toc491430765)

[3.2.5.21.1.1 Scalar Properties 148](#_Toc491430766)

[3.2.5.21.1.1.1 Activate 148](#_Toc491430767)

[3.2.5.21.1.1.2 ChangeToken 148](#_Toc491430768)

[3.2.5.21.1.1.3 ChangeType 148](#_Toc491430769)

[3.2.5.21.1.1.4 SiteId 148](#_Toc491430770)

[3.2.5.21.1.1.5 Time 148](#_Toc491430771)

[3.2.5.21.1.1.6 UserId 149](#_Toc491430772)

[3.2.5.21.1.2 ObjectPath Properties 149](#_Toc491430773)

[3.2.5.21.2 Methods 149](#_Toc491430774)

[3.2.5.21.2.1 Scalar Methods 149](#_Toc491430775)

[3.2.5.21.2.2 ObjectPath Methods 149](#_Toc491430776)

[3.2.5.22 Microsoft.SharePoint.Client.ChangeView 149](#_Toc491430777)

[3.2.5.22.1 Properties 149](#_Toc491430778)

[3.2.5.22.1.1 Scalar Properties 149](#_Toc491430779)

[3.2.5.22.1.1.1 ChangeToken 149](#_Toc491430780)

[3.2.5.22.1.1.2 ChangeType 149](#_Toc491430781)

[3.2.5.22.1.1.3 ListId 149](#_Toc491430782)

[3.2.5.22.1.1.4 SiteId 150](#_Toc491430783)

[3.2.5.22.1.1.5 Time 150](#_Toc491430784)

[3.2.5.22.1.1.6 ViewId 150](#_Toc491430785)

[3.2.5.22.1.1.7 WebId 150](#_Toc491430786)

[3.2.5.22.1.2 ObjectPath Properties 150](#_Toc491430787)

[3.2.5.22.2 Methods 150](#_Toc491430788)

[3.2.5.22.2.1 Scalar Methods 151](#_Toc491430789)

[3.2.5.22.2.2 ObjectPath Methods 151](#_Toc491430790)

[3.2.5.23 Microsoft.SharePoint.Client.ChangeWeb 151](#_Toc491430791)

[3.2.5.23.1 Properties 151](#_Toc491430792)

[3.2.5.23.1.1 Scalar Properties 151](#_Toc491430793)

[3.2.5.23.1.1.1 ChangeToken 151](#_Toc491430794)

[3.2.5.23.1.1.2 ChangeType 151](#_Toc491430795)

[3.2.5.23.1.1.3 SiteId 151](#_Toc491430796)

[3.2.5.23.1.1.4 Time 151](#_Toc491430797)

[3.2.5.23.1.1.5 WebId 151](#_Toc491430798)

[3.2.5.23.1.2 ObjectPath Properties 152](#_Toc491430799)

[3.2.5.23.2 Methods 152](#_Toc491430800)

[3.2.5.23.2.1 Scalar Methods 152](#_Toc491430801)

[3.2.5.23.2.2 ObjectPath Methods 152](#_Toc491430802)

[3.2.5.24 Microsoft.SharePoint.Client.CheckinType 152](#_Toc491430803)

[3.2.5.24.1 Field Values 152](#_Toc491430804)

[3.2.5.24.1.1 MinorCheckIn 152](#_Toc491430805)

[3.2.5.24.1.2 MajorCheckIn 152](#_Toc491430806)

[3.2.5.24.1.3 OverwriteCheckIn 152](#_Toc491430807)

[3.2.5.25 Microsoft.SharePoint.Client.CheckOutType 152](#_Toc491430808)

[3.2.5.25.1 Field Values 153](#_Toc491430809)

[3.2.5.25.1.1 Online 153](#_Toc491430810)

[3.2.5.25.1.2 Offline 153](#_Toc491430811)

[3.2.5.25.1.3 None 153](#_Toc491430812)

[3.2.5.26 Microsoft.SharePoint.Client.ChoiceFormatType 153](#_Toc491430813)

[3.2.5.26.1 Field Values 153](#_Toc491430814)

[3.2.5.26.1.1 Dropdown 153](#_Toc491430815)

[3.2.5.26.1.2 RadioButtons 153](#_Toc491430816)

[3.2.5.27 Microsoft.SharePoint.Client.ContentType 153](#_Toc491430817)

[3.2.5.27.1 Properties 153](#_Toc491430818)

[3.2.5.27.1.1 Scalar Properties 153](#_Toc491430819)

[3.2.5.27.1.1.1 Description 154](#_Toc491430820)

[3.2.5.27.1.1.2 DisplayFormTemplateName 154](#_Toc491430821)

[3.2.5.27.1.1.3 DisplayFormUrl 154](#_Toc491430822)

[3.2.5.27.1.1.4 DocumentTemplate 154](#_Toc491430823)

[3.2.5.27.1.1.5 DocumentTemplateUrl 154](#_Toc491430824)

[3.2.5.27.1.1.6 EditFormTemplateName 154](#_Toc491430825)

[3.2.5.27.1.1.7 EditFormUrl 155](#_Toc491430826)

[3.2.5.27.1.1.8 Group 155](#_Toc491430827)

[3.2.5.27.1.1.9 Hidden 155](#_Toc491430828)

[3.2.5.27.1.1.10 Id 155](#_Toc491430829)

[3.2.5.27.1.1.11 Name 155](#_Toc491430830)

[3.2.5.27.1.1.12 NewFormTemplateName 155](#_Toc491430831)

[3.2.5.27.1.1.13 NewFormUrl 155](#_Toc491430832)

[3.2.5.27.1.1.14 ReadOnly 156](#_Toc491430833)

[3.2.5.27.1.1.15 SchemaXml 156](#_Toc491430834)

[3.2.5.27.1.1.16 Scope 156](#_Toc491430835)

[3.2.5.27.1.1.17 JSLink 156](#_Toc491430836)

[3.2.5.27.1.1.18 Sealed 156](#_Toc491430837)

[3.2.5.27.1.1.19 StringId 156](#_Toc491430838)

[3.2.5.27.1.1.20 SchemaXmlWithResourceTokens 156](#_Toc491430839)

[3.2.5.27.1.1.21 MobileDisplayFormUrl 157](#_Toc491430840)

[3.2.5.27.1.1.22 MobileEditFormUrl 157](#_Toc491430841)

[3.2.5.27.1.1.23 MobileNewFormUrl 157](#_Toc491430842)

[3.2.5.27.1.2 ObjectPath Properties 157](#_Toc491430843)

[3.2.5.27.1.2.1 DescriptionResource 157](#_Toc491430844)

[3.2.5.27.1.2.2 FieldLinks 157](#_Toc491430845)

[3.2.5.27.1.2.3 Fields 157](#_Toc491430846)

[3.2.5.27.1.2.4 NameResource 157](#_Toc491430847)

[3.2.5.27.1.2.5 Parent 158](#_Toc491430848)

[3.2.5.27.1.2.6 WorkflowAssociations 158](#_Toc491430849)

[3.2.5.27.2 Methods 158](#_Toc491430850)

[3.2.5.27.2.1 Scalar Methods 158](#_Toc491430851)

[3.2.5.27.2.1.1 DeleteObject 158](#_Toc491430852)

[3.2.5.27.2.1.2 Update 158](#_Toc491430853)

[3.2.5.27.2.2 ObjectPath Methods 158](#_Toc491430854)

[3.2.5.28 Microsoft.SharePoint.Client.ContentTypeCollection 158](#_Toc491430855)

[3.2.5.28.1 Properties 158](#_Toc491430856)

[3.2.5.28.1.1 Scalar Properties 158](#_Toc491430857)

[3.2.5.28.1.2 ObjectPath Properties 159](#_Toc491430858)

[3.2.5.28.2 Methods 159](#_Toc491430859)

[3.2.5.28.2.1 Scalar Methods 159](#_Toc491430860)

[3.2.5.28.2.2 ObjectPath Methods 159](#_Toc491430861)

[3.2.5.28.2.2.1 Add 159](#_Toc491430862)

[3.2.5.28.2.2.2 AddExistingContentType 159](#_Toc491430863)

[3.2.5.28.2.2.3 GetById 160](#_Toc491430864)

[3.2.5.28.2.2.4 AddAvailableContentType 160](#_Toc491430865)

[3.2.5.29 Microsoft.SharePoint.Client.ContentTypeCreationInformation 160](#_Toc491430866)

[3.2.5.29.1 Properties 161](#_Toc491430867)

[3.2.5.29.1.1 Scalar Properties 161](#_Toc491430868)

[3.2.5.29.1.1.1 Description 161](#_Toc491430869)

[3.2.5.29.1.1.2 Group 161](#_Toc491430870)

[3.2.5.29.1.1.3 Id 161](#_Toc491430871)

[3.2.5.29.1.1.4 Name 161](#_Toc491430872)

[3.2.5.29.1.2 ObjectPath Properties 161](#_Toc491430873)

[3.2.5.29.1.2.1 ParentContentType 161](#_Toc491430874)

[3.2.5.30 Microsoft.SharePoint.Client.ContentTypeId 162](#_Toc491430875)

[3.2.5.30.1 Properties 162](#_Toc491430876)

[3.2.5.30.1.1 Scalar Properties 162](#_Toc491430877)

[3.2.5.30.1.1.1 StringValue 162](#_Toc491430878)

[3.2.5.30.1.2 ObjectPath Properties 162](#_Toc491430879)

[3.2.5.31 Microsoft.SharePoint.Client.CustomizedPageStatus 162](#_Toc491430880)

[3.2.5.31.1 Field Values 162](#_Toc491430881)

[3.2.5.31.1.1 None 162](#_Toc491430882)

[3.2.5.31.1.2 Uncustomized 162](#_Toc491430883)

[3.2.5.31.1.3 Customized 162](#_Toc491430884)

[3.2.5.32 Microsoft.SharePoint.Client.DateTimeFieldFormatType 162](#_Toc491430885)

[3.2.5.32.1 Field Values 163](#_Toc491430886)

[3.2.5.32.1.1 DateOnly 163](#_Toc491430887)

[3.2.5.32.1.2 DateTime 163](#_Toc491430888)

[3.2.5.33 Microsoft.SharePoint.Client.DraftVisibilityType 163](#_Toc491430889)

[3.2.5.33.1 Field Values 163](#_Toc491430890)

[3.2.5.33.1.1 Reader 163](#_Toc491430891)

[3.2.5.33.1.2 Author 163](#_Toc491430892)

[3.2.5.33.1.3 Approver 163](#_Toc491430893)

[3.2.5.34 Microsoft.SharePoint.Client.Feature 163](#_Toc491430894)

[3.2.5.34.1 Properties 164](#_Toc491430895)

[3.2.5.34.1.1 Scalar Properties 164](#_Toc491430896)

[3.2.5.34.1.1.1 DefinitionId 164](#_Toc491430897)

[3.2.5.34.1.1.2 DisplayName 164](#_Toc491430898)

[3.2.5.34.1.2 ObjectPath Properties 164](#_Toc491430899)

[3.2.5.34.2 Methods 164](#_Toc491430900)

[3.2.5.34.2.1 Scalar Methods 164](#_Toc491430901)

[3.2.5.34.2.2 ObjectPath Methods 164](#_Toc491430902)

[3.2.5.35 Microsoft.SharePoint.Client.FeatureCollection 164](#_Toc491430903)

[3.2.5.35.1 Properties 164](#_Toc491430904)

[3.2.5.35.1.1 Scalar Properties 164](#_Toc491430905)

[3.2.5.35.1.2 ObjectPath Properties 165](#_Toc491430906)

[3.2.5.35.2 Methods 165](#_Toc491430907)

[3.2.5.35.2.1 Scalar Methods 165](#_Toc491430908)

[3.2.5.35.2.1.1 Remove 165](#_Toc491430909)

[3.2.5.35.2.2 ObjectPath Methods 165](#_Toc491430910)

[3.2.5.35.2.2.1 Add 165](#_Toc491430911)

[3.2.5.35.2.2.2 GetById 166](#_Toc491430912)

[3.2.5.36 Microsoft.SharePoint.Client.FeatureDefinitionScope 166](#_Toc491430913)

[3.2.5.36.1 Field Values 166](#_Toc491430914)

[3.2.5.36.1.1 None 166](#_Toc491430915)

[3.2.5.36.1.2 Farm 166](#_Toc491430916)

[3.2.5.36.1.3 Site 166](#_Toc491430917)

[3.2.5.36.1.4 Web 166](#_Toc491430918)

[3.2.5.37 Microsoft.SharePoint.Client.Field 167](#_Toc491430919)

[3.2.5.37.1 Properties 167](#_Toc491430920)

[3.2.5.37.1.1 Scalar Properties 167](#_Toc491430921)

[3.2.5.37.1.1.1 CanBeDeleted 167](#_Toc491430922)

[3.2.5.37.1.1.2 DefaultValue 167](#_Toc491430923)

[3.2.5.37.1.1.3 Description 167](#_Toc491430924)

[3.2.5.37.1.1.4 Direction 167](#_Toc491430925)

[3.2.5.37.1.1.5 EnforceUniqueValues 168](#_Toc491430926)

[3.2.5.37.1.1.6 FieldTypeKind 168](#_Toc491430927)

[3.2.5.37.1.1.7 Filterable 169](#_Toc491430928)

[3.2.5.37.1.1.8 FromBaseType 169](#_Toc491430929)

[3.2.5.37.1.1.9 Group 169](#_Toc491430930)

[3.2.5.37.1.1.10 Hidden 169](#_Toc491430931)

[3.2.5.37.1.1.11 Id 169](#_Toc491430932)

[3.2.5.37.1.1.12 InternalName 170](#_Toc491430933)

[3.2.5.37.1.1.13 ReadOnlyField 170](#_Toc491430934)

[3.2.5.37.1.1.14 Required 170](#_Toc491430935)

[3.2.5.37.1.1.15 SchemaXml 170](#_Toc491430936)

[3.2.5.37.1.1.16 Scope 171](#_Toc491430937)

[3.2.5.37.1.1.17 Sealed 171](#_Toc491430938)

[3.2.5.37.1.1.18 Sortable 171](#_Toc491430939)

[3.2.5.37.1.1.19 StaticName 171](#_Toc491430940)

[3.2.5.37.1.1.20 Title 171](#_Toc491430941)

[3.2.5.37.1.1.21 TypeAsString 171](#_Toc491430942)

[3.2.5.37.1.1.22 TypeDisplayName 172](#_Toc491430943)

[3.2.5.37.1.1.23 TypeShortDescription 172](#_Toc491430944)

[3.2.5.37.1.1.24 ValidationFormula 172](#_Toc491430945)

[3.2.5.37.1.1.25 ValidationMessage 172](#_Toc491430946)

[3.2.5.37.1.1.26 JSLink 172](#_Toc491430947)

[3.2.5.37.1.1.27 EntityPropertyName 173](#_Toc491430948)

[3.2.5.37.1.1.28 Indexed 173](#_Toc491430949)

[3.2.5.37.1.1.29 SchemaXmlWithResourceTokens 173](#_Toc491430950)

[3.2.5.37.1.1.30 AutoIndexed 173](#_Toc491430951)

[3.2.5.37.1.2 ObjectPath Properties 173](#_Toc491430952)

[3.2.5.37.1.2.1 DescriptionResource 173](#_Toc491430953)

[3.2.5.37.1.2.2 TitleResource 173](#_Toc491430954)

[3.2.5.37.2 Methods 173](#_Toc491430955)

[3.2.5.37.2.1 Scalar Methods 174](#_Toc491430956)

[3.2.5.37.2.1.1 DeleteObject 174](#_Toc491430957)

[3.2.5.37.2.1.2 SetShowInDisplayForm 174](#_Toc491430958)

[3.2.5.37.2.1.3 SetShowInEditForm 174](#_Toc491430959)

[3.2.5.37.2.1.4 SetShowInNewForm 174](#_Toc491430960)

[3.2.5.37.2.1.5 Update 174](#_Toc491430961)

[3.2.5.37.2.1.6 UpdateAndPushChanges 175](#_Toc491430962)

[3.2.5.37.2.1.7 ValidateSetValue 175](#_Toc491430963)

[3.2.5.37.2.2 ObjectPath Methods 176](#_Toc491430964)

[3.2.5.38 Microsoft.SharePoint.Client.FieldCalculated 176](#_Toc491430965)

[3.2.5.38.1 Properties 176](#_Toc491430966)

[3.2.5.38.1.1 Scalar Properties 176](#_Toc491430967)

[3.2.5.38.1.1.1 CanBeDeleted 176](#_Toc491430968)

[3.2.5.38.1.1.2 DateFormat 176](#_Toc491430969)

[3.2.5.38.1.1.3 DefaultValue 176](#_Toc491430970)

[3.2.5.38.1.1.4 Description 176](#_Toc491430971)

[3.2.5.38.1.1.5 Direction 177](#_Toc491430972)

[3.2.5.38.1.1.6 EnforceUniqueValues 177](#_Toc491430973)

[3.2.5.38.1.1.7 FieldTypeKind 177](#_Toc491430974)

[3.2.5.38.1.1.8 Filterable 177](#_Toc491430975)

[3.2.5.38.1.1.9 Formula 178](#_Toc491430976)

[3.2.5.38.1.1.10 FromBaseType 178](#_Toc491430977)

[3.2.5.38.1.1.11 Group 178](#_Toc491430978)

[3.2.5.38.1.1.12 Hidden 178](#_Toc491430979)

[3.2.5.38.1.1.13 Id 178](#_Toc491430980)

[3.2.5.38.1.1.14 InternalName 178](#_Toc491430981)

[3.2.5.38.1.1.15 OutputType 179](#_Toc491430982)

[3.2.5.38.1.1.16 ReadOnlyField 179](#_Toc491430983)

[3.2.5.38.1.1.17 Required 179](#_Toc491430984)

[3.2.5.38.1.1.18 SchemaXml 179](#_Toc491430985)

[3.2.5.38.1.1.19 Scope 180](#_Toc491430986)

[3.2.5.38.1.1.20 Sealed 180](#_Toc491430987)

[3.2.5.38.1.1.21 Sortable 180](#_Toc491430988)

[3.2.5.38.1.1.22 StaticName 180](#_Toc491430989)

[3.2.5.38.1.1.23 Title 180](#_Toc491430990)

[3.2.5.38.1.1.24 TypeAsString 180](#_Toc491430991)

[3.2.5.38.1.1.25 TypeDisplayName 181](#_Toc491430992)

[3.2.5.38.1.1.26 TypeShortDescription 181](#_Toc491430993)

[3.2.5.38.1.1.27 ValidationFormula 181](#_Toc491430994)

[3.2.5.38.1.1.28 ValidationMessage 181](#_Toc491430995)

[3.2.5.38.1.1.29 JSLink 181](#_Toc491430996)

[3.2.5.38.1.1.30 EntityPropertyName 182](#_Toc491430997)

[3.2.5.38.1.1.31 Indexed 182](#_Toc491430998)

[3.2.5.38.1.1.32 SchemaXmlWithResourceTokens 182](#_Toc491430999)

[3.2.5.38.1.1.33 AutoIndexed 182](#_Toc491431000)

[3.2.5.38.1.2 ObjectPath Properties 182](#_Toc491431001)

[3.2.5.38.1.2.1 DescriptionResource 182](#_Toc491431002)

[3.2.5.38.1.2.2 TitleResource 182](#_Toc491431003)

[3.2.5.38.2 Methods 182](#_Toc491431004)

[3.2.5.38.2.1 Scalar Methods 182](#_Toc491431005)

[3.2.5.38.2.1.1 DeleteObject 183](#_Toc491431006)

[3.2.5.38.2.1.2 SetShowInDisplayForm 183](#_Toc491431007)

[3.2.5.38.2.1.3 SetShowInEditForm 183](#_Toc491431008)

[3.2.5.38.2.1.4 SetShowInNewForm 183](#_Toc491431009)

[3.2.5.38.2.1.5 Update 183](#_Toc491431010)

[3.2.5.38.2.1.6 UpdateAndPushChanges 184](#_Toc491431011)

[3.2.5.38.2.1.7 ValidateSetValue 184](#_Toc491431012)

[3.2.5.38.2.2 ObjectPath Methods 184](#_Toc491431013)

[3.2.5.39 Microsoft.SharePoint.Client.FieldCalculatedErrorValue 185](#_Toc491431014)

[3.2.5.39.1 Properties 185](#_Toc491431015)

[3.2.5.39.1.1 Scalar Properties 185](#_Toc491431016)

[3.2.5.39.1.1.1 ErrorMessage 185](#_Toc491431017)

[3.2.5.39.1.2 ObjectPath Properties 185](#_Toc491431018)

[3.2.5.40 Microsoft.SharePoint.Client.FieldChoice 185](#_Toc491431019)

[3.2.5.40.1 Properties 185](#_Toc491431020)

[3.2.5.40.1.1 Scalar Properties 185](#_Toc491431021)

[3.2.5.40.1.1.1 CanBeDeleted 185](#_Toc491431022)

[3.2.5.40.1.1.2 Choices 185](#_Toc491431023)

[3.2.5.40.1.1.3 DefaultValue 186](#_Toc491431024)

[3.2.5.40.1.1.4 Description 186](#_Toc491431025)

[3.2.5.40.1.1.5 Direction 186](#_Toc491431026)

[3.2.5.40.1.1.6 EditFormat 186](#_Toc491431027)

[3.2.5.40.1.1.7 EnforceUniqueValues 186](#_Toc491431028)

[3.2.5.40.1.1.8 FieldTypeKind 187](#_Toc491431029)

[3.2.5.40.1.1.9 FillInChoice 187](#_Toc491431030)

[3.2.5.40.1.1.10 Filterable 187](#_Toc491431031)

[3.2.5.40.1.1.11 FromBaseType 187](#_Toc491431032)

[3.2.5.40.1.1.12 Group 187](#_Toc491431033)

[3.2.5.40.1.1.13 Hidden 188](#_Toc491431034)

[3.2.5.40.1.1.14 Id 188](#_Toc491431035)

[3.2.5.40.1.1.15 InternalName 188](#_Toc491431036)

[3.2.5.40.1.1.16 Mappings 188](#_Toc491431037)

[3.2.5.40.1.1.17 ReadOnlyField 188](#_Toc491431038)

[3.2.5.40.1.1.18 Required 189](#_Toc491431039)

[3.2.5.40.1.1.19 SchemaXml 189](#_Toc491431040)

[3.2.5.40.1.1.20 Scope 189](#_Toc491431041)

[3.2.5.40.1.1.21 Sealed 189](#_Toc491431042)

[3.2.5.40.1.1.22 Sortable 190](#_Toc491431043)

[3.2.5.40.1.1.23 StaticName 190](#_Toc491431044)

[3.2.5.40.1.1.24 Title 190](#_Toc491431045)

[3.2.5.40.1.1.25 TypeAsString 190](#_Toc491431046)

[3.2.5.40.1.1.26 TypeDisplayName 190](#_Toc491431047)

[3.2.5.40.1.1.27 TypeShortDescription 191](#_Toc491431048)

[3.2.5.40.1.1.28 ValidationFormula 191](#_Toc491431049)

[3.2.5.40.1.1.29 ValidationMessage 191](#_Toc491431050)

[3.2.5.40.1.1.30 JSLink 191](#_Toc491431051)

[3.2.5.40.1.1.31 EntityPropertyName 191](#_Toc491431052)

[3.2.5.40.1.1.32 Indexed 191](#_Toc491431053)

[3.2.5.40.1.1.33 SchemaXmlWithResourceTokens 192](#_Toc491431054)

[3.2.5.40.1.1.34 AutoIndexed 192](#_Toc491431055)

[3.2.5.40.1.2 ObjectPath Properties 192](#_Toc491431056)

[3.2.5.40.1.2.1 DescriptionResource 192](#_Toc491431057)

[3.2.5.40.1.2.2 TitleResource 192](#_Toc491431058)

[3.2.5.40.2 Methods 192](#_Toc491431059)

[3.2.5.40.2.1 Scalar Methods 192](#_Toc491431060)

[3.2.5.40.2.1.1 DeleteObject 192](#_Toc491431061)

[3.2.5.40.2.1.2 SetShowInDisplayForm 192](#_Toc491431062)

[3.2.5.40.2.1.3 SetShowInEditForm 193](#_Toc491431063)

[3.2.5.40.2.1.4 SetShowInNewForm 193](#_Toc491431064)

[3.2.5.40.2.1.5 Update 193](#_Toc491431065)

[3.2.5.40.2.1.6 UpdateAndPushChanges 193](#_Toc491431066)

[3.2.5.40.2.1.7 ValidateSetValue 194](#_Toc491431067)

[3.2.5.40.2.2 ObjectPath Methods 194](#_Toc491431068)

[3.2.5.41 Microsoft.SharePoint.Client.FieldCollection 194](#_Toc491431069)

[3.2.5.41.1 Properties 194](#_Toc491431070)

[3.2.5.41.1.1 Scalar Properties 194](#_Toc491431071)

[3.2.5.41.1.1.1 SchemaXml 194](#_Toc491431072)

[3.2.5.41.1.2 ObjectPath Properties 195](#_Toc491431073)

[3.2.5.41.2 Methods 195](#_Toc491431074)

[3.2.5.41.2.1 Scalar Methods 195](#_Toc491431075)

[3.2.5.41.2.2 ObjectPath Methods 195](#_Toc491431076)

[3.2.5.41.2.2.1 Add 195](#_Toc491431077)

[3.2.5.41.2.2.2 AddDependentLookup 195](#_Toc491431078)

[3.2.5.41.2.2.3 AddFieldAsXml 195](#_Toc491431079)

[3.2.5.41.2.2.4 GetById 196](#_Toc491431080)

[3.2.5.41.2.2.5 GetByInternalNameOrTitle 196](#_Toc491431081)

[3.2.5.41.2.2.6 GetByTitle 197](#_Toc491431082)

[3.2.5.41.2.2.7 AddDependentLookupField 197](#_Toc491431083)

[3.2.5.41.2.2.8 AddField 197](#_Toc491431084)

[3.2.5.41.2.2.9 CreateFieldAsXml 198](#_Toc491431085)

[3.2.5.42 Microsoft.SharePoint.Client.FieldComputed 199](#_Toc491431086)

[3.2.5.42.1 Properties 199](#_Toc491431087)

[3.2.5.42.1.1 Scalar Properties 199](#_Toc491431088)

[3.2.5.42.1.1.1 CanBeDeleted 199](#_Toc491431089)

[3.2.5.42.1.1.2 DefaultValue 199](#_Toc491431090)

[3.2.5.42.1.1.3 Description 200](#_Toc491431091)

[3.2.5.42.1.1.4 Direction 200](#_Toc491431092)

[3.2.5.42.1.1.5 EnableLookup 200](#_Toc491431093)

[3.2.5.42.1.1.6 EnforceUniqueValues 200](#_Toc491431094)

[3.2.5.42.1.1.7 FieldTypeKind 201](#_Toc491431095)

[3.2.5.42.1.1.8 Filterable 201](#_Toc491431096)

[3.2.5.42.1.1.9 FromBaseType 201](#_Toc491431097)

[3.2.5.42.1.1.10 Group 201](#_Toc491431098)

[3.2.5.42.1.1.11 Hidden 201](#_Toc491431099)

[3.2.5.42.1.1.12 Id 202](#_Toc491431100)

[3.2.5.42.1.1.13 InternalName 202](#_Toc491431101)

[3.2.5.42.1.1.14 ReadOnlyField 202](#_Toc491431102)

[3.2.5.42.1.1.15 Required 202](#_Toc491431103)

[3.2.5.42.1.1.16 SchemaXml 202](#_Toc491431104)

[3.2.5.42.1.1.17 Scope 203](#_Toc491431105)

[3.2.5.42.1.1.18 Sealed 203](#_Toc491431106)

[3.2.5.42.1.1.19 Sortable 203](#_Toc491431107)

[3.2.5.42.1.1.20 StaticName 203](#_Toc491431108)

[3.2.5.42.1.1.21 Title 203](#_Toc491431109)

[3.2.5.42.1.1.22 TypeAsString 203](#_Toc491431110)

[3.2.5.42.1.1.23 TypeDisplayName 204](#_Toc491431111)

[3.2.5.42.1.1.24 TypeShortDescription 204](#_Toc491431112)

[3.2.5.42.1.1.25 ValidationFormula 204](#_Toc491431113)

[3.2.5.42.1.1.26 ValidationMessage 204](#_Toc491431114)

[3.2.5.42.1.1.27 JSLink 204](#_Toc491431115)

[3.2.5.42.1.1.28 EntityPropertyName 205](#_Toc491431116)

[3.2.5.42.1.1.29 Indexed 205](#_Toc491431117)

[3.2.5.42.1.1.30 SchemaXmlWithResourceTokens 205](#_Toc491431118)

[3.2.5.42.1.1.31 AutoIndexed 205](#_Toc491431119)

[3.2.5.42.1.2 ObjectPath Properties 205](#_Toc491431120)

[3.2.5.42.1.2.1 DescriptionResource 205](#_Toc491431121)

[3.2.5.42.1.2.2 TitleResource 205](#_Toc491431122)

[3.2.5.42.2 Methods 205](#_Toc491431123)

[3.2.5.42.2.1 Scalar Methods 205](#_Toc491431124)

[3.2.5.42.2.1.1 DeleteObject 206](#_Toc491431125)

[3.2.5.42.2.1.2 SetShowInDisplayForm 206](#_Toc491431126)

[3.2.5.42.2.1.3 SetShowInEditForm 206](#_Toc491431127)

[3.2.5.42.2.1.4 SetShowInNewForm 206](#_Toc491431128)

[3.2.5.42.2.1.5 Update 206](#_Toc491431129)

[3.2.5.42.2.1.6 UpdateAndPushChanges 207](#_Toc491431130)

[3.2.5.42.2.1.7 ValidateSetValue 207](#_Toc491431131)

[3.2.5.42.2.2 ObjectPath Methods 207](#_Toc491431132)

[3.2.5.43 Microsoft.SharePoint.Client.FieldCurrency 208](#_Toc491431133)

[3.2.5.43.1 Properties 208](#_Toc491431134)

[3.2.5.43.1.1 Scalar Properties 208](#_Toc491431135)

[3.2.5.43.1.1.1 CanBeDeleted 208](#_Toc491431136)

[3.2.5.43.1.1.2 CurrencyLocaleId 208](#_Toc491431137)

[3.2.5.43.1.1.3 DefaultValue 208](#_Toc491431138)

[3.2.5.43.1.1.4 Description 208](#_Toc491431139)

[3.2.5.43.1.1.5 Direction 209](#_Toc491431140)

[3.2.5.43.1.1.6 EnforceUniqueValues 209](#_Toc491431141)

[3.2.5.43.1.1.7 FieldTypeKind 209](#_Toc491431142)

[3.2.5.43.1.1.8 Filterable 209](#_Toc491431143)

[3.2.5.43.1.1.9 FromBaseType 210](#_Toc491431144)

[3.2.5.43.1.1.10 Group 210](#_Toc491431145)

[3.2.5.43.1.1.11 Hidden 210](#_Toc491431146)

[3.2.5.43.1.1.12 Id 210](#_Toc491431147)

[3.2.5.43.1.1.13 InternalName 210](#_Toc491431148)

[3.2.5.43.1.1.14 MaximumValue 210](#_Toc491431149)

[3.2.5.43.1.1.15 MinimumValue 211](#_Toc491431150)

[3.2.5.43.1.1.16 ReadOnlyField 211](#_Toc491431151)

[3.2.5.43.1.1.17 Required 211](#_Toc491431152)

[3.2.5.43.1.1.18 SchemaXml 211](#_Toc491431153)

[3.2.5.43.1.1.19 Scope 212](#_Toc491431154)

[3.2.5.43.1.1.20 Sealed 212](#_Toc491431155)

[3.2.5.43.1.1.21 Sortable 212](#_Toc491431156)

[3.2.5.43.1.1.22 StaticName 212](#_Toc491431157)

[3.2.5.43.1.1.23 Title 212](#_Toc491431158)

[3.2.5.43.1.1.24 TypeAsString 212](#_Toc491431159)

[3.2.5.43.1.1.25 TypeDisplayName 213](#_Toc491431160)

[3.2.5.43.1.1.26 TypeShortDescription 213](#_Toc491431161)

[3.2.5.43.1.1.27 ValidationFormula 213](#_Toc491431162)

[3.2.5.43.1.1.28 ValidationMessage 213](#_Toc491431163)

[3.2.5.43.1.1.29 JSLink 213](#_Toc491431164)

[3.2.5.43.1.1.30 EntityPropertyName 214](#_Toc491431165)

[3.2.5.43.1.1.31 Indexed 214](#_Toc491431166)

[3.2.5.43.1.1.32 SchemaXmlWithResourceTokens 214](#_Toc491431167)

[3.2.5.43.1.1.33 AutoIndexed 214](#_Toc491431168)

[3.2.5.43.1.2 ObjectPath Properties 214](#_Toc491431169)

[3.2.5.43.1.2.1 DescriptionResource 214](#_Toc491431170)

[3.2.5.43.1.2.2 TitleResource 214](#_Toc491431171)

[3.2.5.43.2 Methods 214](#_Toc491431172)

[3.2.5.43.2.1 Scalar Methods 214](#_Toc491431173)

[3.2.5.43.2.1.1 DeleteObject 215](#_Toc491431174)

[3.2.5.43.2.1.2 SetShowInDisplayForm 215](#_Toc491431175)

[3.2.5.43.2.1.3 SetShowInEditForm 215](#_Toc491431176)

[3.2.5.43.2.1.4 SetShowInNewForm 215](#_Toc491431177)

[3.2.5.43.2.1.5 Update 215](#_Toc491431178)

[3.2.5.43.2.1.6 UpdateAndPushChanges 216](#_Toc491431179)

[3.2.5.43.2.1.7 ValidateSetValue 216](#_Toc491431180)

[3.2.5.43.2.2 ObjectPath Methods 216](#_Toc491431181)

[3.2.5.44 Microsoft.SharePoint.Client.FieldDateTime 217](#_Toc491431182)

[3.2.5.44.1 Properties 217](#_Toc491431183)

[3.2.5.44.1.1 Scalar Properties 217](#_Toc491431184)

[3.2.5.44.1.1.1 CanBeDeleted 217](#_Toc491431185)

[3.2.5.44.1.1.2 DateTimeCalendarType 217](#_Toc491431186)

[3.2.5.44.1.1.3 DefaultValue 217](#_Toc491431187)

[3.2.5.44.1.1.4 Description 217](#_Toc491431188)

[3.2.5.44.1.1.5 Direction 218](#_Toc491431189)

[3.2.5.44.1.1.6 DisplayFormat 218](#_Toc491431190)

[3.2.5.44.1.1.7 EnforceUniqueValues 218](#_Toc491431191)

[3.2.5.44.1.1.8 FieldTypeKind 218](#_Toc491431192)

[3.2.5.44.1.1.9 Filterable 219](#_Toc491431193)

[3.2.5.44.1.1.10 FromBaseType 219](#_Toc491431194)

[3.2.5.44.1.1.11 Group 219](#_Toc491431195)

[3.2.5.44.1.1.12 Hidden 219](#_Toc491431196)

[3.2.5.44.1.1.13 Id 219](#_Toc491431197)

[3.2.5.44.1.1.14 InternalName 219](#_Toc491431198)

[3.2.5.44.1.1.15 ReadOnlyField 220](#_Toc491431199)

[3.2.5.44.1.1.16 Required 220](#_Toc491431200)

[3.2.5.44.1.1.17 SchemaXml 220](#_Toc491431201)

[3.2.5.44.1.1.18 Scope 220](#_Toc491431202)

[3.2.5.44.1.1.19 Sealed 221](#_Toc491431203)

[3.2.5.44.1.1.20 Sortable 221](#_Toc491431204)

[3.2.5.44.1.1.21 StaticName 221](#_Toc491431205)

[3.2.5.44.1.1.22 Title 221](#_Toc491431206)

[3.2.5.44.1.1.23 TypeAsString 221](#_Toc491431207)

[3.2.5.44.1.1.24 TypeDisplayName 222](#_Toc491431208)

[3.2.5.44.1.1.25 TypeShortDescription 222](#_Toc491431209)

[3.2.5.44.1.1.26 ValidationFormula 222](#_Toc491431210)

[3.2.5.44.1.1.27 ValidationMessage 222](#_Toc491431211)

[3.2.5.44.1.1.28 FriendlyDisplayFormat 222](#_Toc491431212)

[3.2.5.44.1.1.29 JSLink 222](#_Toc491431213)

[3.2.5.44.1.1.30 EntityPropertyName 222](#_Toc491431214)

[3.2.5.44.1.1.31 Indexed 223](#_Toc491431215)

[3.2.5.44.1.1.32 SchemaXmlWithResourceTokens 223](#_Toc491431216)

[3.2.5.44.1.1.33 AutoIndexed 223](#_Toc491431217)

[3.2.5.44.1.2 ObjectPath Properties 223](#_Toc491431218)

[3.2.5.44.1.2.1 DescriptionResource 223](#_Toc491431219)

[3.2.5.44.1.2.2 TitleResource 223](#_Toc491431220)

[3.2.5.44.2 Methods 223](#_Toc491431221)

[3.2.5.44.2.1 Scalar Methods 223](#_Toc491431222)

[3.2.5.44.2.1.1 DeleteObject 223](#_Toc491431223)

[3.2.5.44.2.1.2 SetShowInDisplayForm 224](#_Toc491431224)

[3.2.5.44.2.1.3 SetShowInEditForm 224](#_Toc491431225)

[3.2.5.44.2.1.4 SetShowInNewForm 224](#_Toc491431226)

[3.2.5.44.2.1.5 Update 224](#_Toc491431227)

[3.2.5.44.2.1.6 UpdateAndPushChanges 225](#_Toc491431228)

[3.2.5.44.2.1.7 ValidateSetValue 225](#_Toc491431229)

[3.2.5.44.2.2 ObjectPath Methods 225](#_Toc491431230)

[3.2.5.45 Microsoft.SharePoint.Client.FieldGuid 226](#_Toc491431231)

[3.2.5.45.1 Properties 226](#_Toc491431232)

[3.2.5.45.1.1 Scalar Properties 226](#_Toc491431233)

[3.2.5.45.1.1.1 CanBeDeleted 226](#_Toc491431234)

[3.2.5.45.1.1.2 DefaultValue 226](#_Toc491431235)

[3.2.5.45.1.1.3 Description 226](#_Toc491431236)

[3.2.5.45.1.1.4 Direction 226](#_Toc491431237)

[3.2.5.45.1.1.5 EnforceUniqueValues 227](#_Toc491431238)

[3.2.5.45.1.1.6 FieldTypeKind 227](#_Toc491431239)

[3.2.5.45.1.1.7 Filterable 227](#_Toc491431240)

[3.2.5.45.1.1.8 FromBaseType 227](#_Toc491431241)

[3.2.5.45.1.1.9 Group 228](#_Toc491431242)

[3.2.5.45.1.1.10 Hidden 228](#_Toc491431243)

[3.2.5.45.1.1.11 Id 228](#_Toc491431244)

[3.2.5.45.1.1.12 InternalName 228](#_Toc491431245)

[3.2.5.45.1.1.13 ReadOnlyField 228](#_Toc491431246)

[3.2.5.45.1.1.14 Required 229](#_Toc491431247)

[3.2.5.45.1.1.15 SchemaXml 229](#_Toc491431248)

[3.2.5.45.1.1.16 Scope 229](#_Toc491431249)

[3.2.5.45.1.1.17 Sealed 229](#_Toc491431250)

[3.2.5.45.1.1.18 Sortable 229](#_Toc491431251)

[3.2.5.45.1.1.19 StaticName 230](#_Toc491431252)

[3.2.5.45.1.1.20 Title 230](#_Toc491431253)

[3.2.5.45.1.1.21 TypeAsString 230](#_Toc491431254)

[3.2.5.45.1.1.22 TypeDisplayName 230](#_Toc491431255)

[3.2.5.45.1.1.23 TypeShortDescription 230](#_Toc491431256)

[3.2.5.45.1.1.24 ValidationFormula 231](#_Toc491431257)

[3.2.5.45.1.1.25 ValidationMessage 231](#_Toc491431258)

[3.2.5.45.1.1.26 JSLink 231](#_Toc491431259)

[3.2.5.45.1.1.27 EntityPropertyName 231](#_Toc491431260)

[3.2.5.45.1.1.28 Indexed 231](#_Toc491431261)

[3.2.5.45.1.1.29 SchemaXmlWithResourceTokens 231](#_Toc491431262)

[3.2.5.45.1.1.30 AutoIndexed 231](#_Toc491431263)

[3.2.5.45.1.2 ObjectPath Properties 232](#_Toc491431264)

[3.2.5.45.1.2.1 DescriptionResource 232](#_Toc491431265)

[3.2.5.45.1.2.2 TitleResource 232](#_Toc491431266)

[3.2.5.45.2 Methods 232](#_Toc491431267)

[3.2.5.45.2.1 Scalar Methods 232](#_Toc491431268)

[3.2.5.45.2.1.1 DeleteObject 232](#_Toc491431269)

[3.2.5.45.2.1.2 SetShowInDisplayForm 232](#_Toc491431270)

[3.2.5.45.2.1.3 SetShowInEditForm 233](#_Toc491431271)

[3.2.5.45.2.1.4 SetShowInNewForm 233](#_Toc491431272)

[3.2.5.45.2.1.5 Update 233](#_Toc491431273)

[3.2.5.45.2.1.6 UpdateAndPushChanges 233](#_Toc491431274)

[3.2.5.45.2.1.7 ValidateSetValue 234](#_Toc491431275)

[3.2.5.45.2.2 ObjectPath Methods 234](#_Toc491431276)

[3.2.5.46 Microsoft.SharePoint.Client.FieldLink 234](#_Toc491431277)

[3.2.5.46.1 Properties 234](#_Toc491431278)

[3.2.5.46.1.1 Scalar Properties 234](#_Toc491431279)

[3.2.5.46.1.1.1 Hidden 234](#_Toc491431280)

[3.2.5.46.1.1.2 Id 234](#_Toc491431281)

[3.2.5.46.1.1.3 Name 235](#_Toc491431282)

[3.2.5.46.1.1.4 Required 235](#_Toc491431283)

[3.2.5.46.1.1.5 FieldInternalName 235](#_Toc491431284)

[3.2.5.46.1.2 ObjectPath Properties 235](#_Toc491431285)

[3.2.5.46.2 Methods 235](#_Toc491431286)

[3.2.5.46.2.1 Scalar Methods 235](#_Toc491431287)

[3.2.5.46.2.1.1 DeleteObject 235](#_Toc491431288)

[3.2.5.46.2.2 ObjectPath Methods 235](#_Toc491431289)

[3.2.5.47 Microsoft.SharePoint.Client.FieldLinkCollection 235](#_Toc491431290)

[3.2.5.47.1 Properties 236](#_Toc491431291)

[3.2.5.47.1.1 Scalar Properties 236](#_Toc491431292)

[3.2.5.47.1.2 ObjectPath Properties 236](#_Toc491431293)

[3.2.5.47.2 Methods 236](#_Toc491431294)

[3.2.5.47.2.1 Scalar Methods 236](#_Toc491431295)

[3.2.5.47.2.1.1 Reorder 236](#_Toc491431296)

[3.2.5.47.2.2 ObjectPath Methods 236](#_Toc491431297)

[3.2.5.47.2.2.1 Add 236](#_Toc491431298)

[3.2.5.47.2.2.2 GetById 236](#_Toc491431299)

[3.2.5.48 Microsoft.SharePoint.Client.FieldLinkCreationInformation 237](#_Toc491431300)

[3.2.5.48.1 Properties 237](#_Toc491431301)

[3.2.5.48.1.1 Scalar Properties 237](#_Toc491431302)

[3.2.5.48.1.2 ObjectPath Properties 237](#_Toc491431303)

[3.2.5.48.1.2.1 Field 237](#_Toc491431304)

[3.2.5.49 Microsoft.SharePoint.Client.FieldLookup 237](#_Toc491431305)

[3.2.5.49.1 Properties 237](#_Toc491431306)

[3.2.5.49.1.1 Scalar Properties 237](#_Toc491431307)

[3.2.5.49.1.1.1 AllowMultipleValues 237](#_Toc491431308)

[3.2.5.49.1.1.2 CanBeDeleted 237](#_Toc491431309)

[3.2.5.49.1.1.3 DefaultValue 238](#_Toc491431310)

[3.2.5.49.1.1.4 Description 238](#_Toc491431311)

[3.2.5.49.1.1.5 Direction 238](#_Toc491431312)

[3.2.5.49.1.1.6 EnforceUniqueValues 238](#_Toc491431313)

[3.2.5.49.1.1.7 FieldTypeKind 239](#_Toc491431314)

[3.2.5.49.1.1.8 Filterable 239](#_Toc491431315)

[3.2.5.49.1.1.9 FromBaseType 239](#_Toc491431316)

[3.2.5.49.1.1.10 Group 239](#_Toc491431317)

[3.2.5.49.1.1.11 Hidden 239](#_Toc491431318)

[3.2.5.49.1.1.12 Id 240](#_Toc491431319)

[3.2.5.49.1.1.13 InternalName 240](#_Toc491431320)

[3.2.5.49.1.1.14 IsRelationship 240](#_Toc491431321)

[3.2.5.49.1.1.15 LookupField 240](#_Toc491431322)

[3.2.5.49.1.1.16 LookupList 240](#_Toc491431323)

[3.2.5.49.1.1.17 LookupWebId 241](#_Toc491431324)

[3.2.5.49.1.1.18 PrimaryFieldId 241](#_Toc491431325)

[3.2.5.49.1.1.19 ReadOnlyField 241](#_Toc491431326)

[3.2.5.49.1.1.20 RelationshipDeleteBehavior 242](#_Toc491431327)

[3.2.5.49.1.1.21 Required 242](#_Toc491431328)

[3.2.5.49.1.1.22 SchemaXml 242](#_Toc491431329)

[3.2.5.49.1.1.23 Scope 242](#_Toc491431330)

[3.2.5.49.1.1.24 Sealed 243](#_Toc491431331)

[3.2.5.49.1.1.25 Sortable 243](#_Toc491431332)

[3.2.5.49.1.1.26 StaticName 243](#_Toc491431333)

[3.2.5.49.1.1.27 Title 243](#_Toc491431334)

[3.2.5.49.1.1.28 TypeAsString 243](#_Toc491431335)

[3.2.5.49.1.1.29 TypeDisplayName 244](#_Toc491431336)

[3.2.5.49.1.1.30 TypeShortDescription 244](#_Toc491431337)

[3.2.5.49.1.1.31 ValidationFormula 244](#_Toc491431338)

[3.2.5.49.1.1.32 ValidationMessage 244](#_Toc491431339)

[3.2.5.49.1.1.33 Indexed 244](#_Toc491431340)

[3.2.5.49.1.1.34 JSLink 244](#_Toc491431341)

[3.2.5.49.1.1.35 EntityPropertyName 244](#_Toc491431342)

[3.2.5.49.1.1.36 SchemaXmlWithResourceTokens 245](#_Toc491431343)

[3.2.5.49.1.1.37 AutoIndexed 245](#_Toc491431344)

[3.2.5.49.1.2 ObjectPath Properties 245](#_Toc491431345)

[3.2.5.49.1.2.1 DescriptionResource 245](#_Toc491431346)

[3.2.5.49.1.2.2 TitleResource 245](#_Toc491431347)

[3.2.5.49.2 Methods 245](#_Toc491431348)

[3.2.5.49.2.1 Scalar Methods 245](#_Toc491431349)

[3.2.5.49.2.1.1 DeleteObject 245](#_Toc491431350)

[3.2.5.49.2.1.2 SetShowInDisplayForm 246](#_Toc491431351)

[3.2.5.49.2.1.3 SetShowInEditForm 246](#_Toc491431352)

[3.2.5.49.2.1.4 SetShowInNewForm 246](#_Toc491431353)

[3.2.5.49.2.1.5 Update 246](#_Toc491431354)

[3.2.5.49.2.1.6 UpdateAndPushChanges 247](#_Toc491431355)

[3.2.5.49.2.1.7 ValidateSetValue 247](#_Toc491431356)

[3.2.5.49.2.2 ObjectPath Methods 247](#_Toc491431357)

[3.2.5.50 Microsoft.SharePoint.Client.FieldLookupValue 248](#_Toc491431358)

[3.2.5.50.1 Properties 248](#_Toc491431359)

[3.2.5.50.1.1 Scalar Properties 248](#_Toc491431360)

[3.2.5.50.1.1.1 LookupId 248](#_Toc491431361)

[3.2.5.50.1.1.2 LookupValue 248](#_Toc491431362)

[3.2.5.50.1.2 ObjectPath Properties 248](#_Toc491431363)

[3.2.5.51 Microsoft.SharePoint.Client.FieldMultiChoice 248](#_Toc491431364)

[3.2.5.51.1 Properties 248](#_Toc491431365)

[3.2.5.51.1.1 Scalar Properties 248](#_Toc491431366)

[3.2.5.51.1.1.1 CanBeDeleted 248](#_Toc491431367)

[3.2.5.51.1.1.2 Choices 248](#_Toc491431368)

[3.2.5.51.1.1.3 DefaultValue 249](#_Toc491431369)

[3.2.5.51.1.1.4 Description 249](#_Toc491431370)

[3.2.5.51.1.1.5 Direction 249](#_Toc491431371)

[3.2.5.51.1.1.6 EnforceUniqueValues 249](#_Toc491431372)

[3.2.5.51.1.1.7 FieldTypeKind 250](#_Toc491431373)

[3.2.5.51.1.1.8 FillInChoice 250](#_Toc491431374)

[3.2.5.51.1.1.9 Filterable 250](#_Toc491431375)

[3.2.5.51.1.1.10 FromBaseType 250](#_Toc491431376)

[3.2.5.51.1.1.11 Group 250](#_Toc491431377)

[3.2.5.51.1.1.12 Hidden 251](#_Toc491431378)

[3.2.5.51.1.1.13 Id 251](#_Toc491431379)

[3.2.5.51.1.1.14 InternalName 251](#_Toc491431380)

[3.2.5.51.1.1.15 Mappings 251](#_Toc491431381)

[3.2.5.51.1.1.16 ReadOnlyField 251](#_Toc491431382)

[3.2.5.51.1.1.17 Required 252](#_Toc491431383)

[3.2.5.51.1.1.18 SchemaXml 252](#_Toc491431384)

[3.2.5.51.1.1.19 Scope 252](#_Toc491431385)

[3.2.5.51.1.1.20 Sealed 252](#_Toc491431386)

[3.2.5.51.1.1.21 Sortable 252](#_Toc491431387)

[3.2.5.51.1.1.22 StaticName 253](#_Toc491431388)

[3.2.5.51.1.1.23 Title 253](#_Toc491431389)

[3.2.5.51.1.1.24 TypeAsString 253](#_Toc491431390)

[3.2.5.51.1.1.25 TypeDisplayName 253](#_Toc491431391)

[3.2.5.51.1.1.26 TypeShortDescription 253](#_Toc491431392)

[3.2.5.51.1.1.27 ValidationFormula 254](#_Toc491431393)

[3.2.5.51.1.1.28 ValidationMessage 254](#_Toc491431394)

[3.2.5.51.1.1.29 JSLink 254](#_Toc491431395)

[3.2.5.51.1.1.30 EntityPropertyName 254](#_Toc491431396)

[3.2.5.51.1.1.31 Indexed 254](#_Toc491431397)

[3.2.5.51.1.1.32 SchemaXmlWithResourceTokens 254](#_Toc491431398)

[3.2.5.51.1.1.33 AutoIndexed 254](#_Toc491431399)

[3.2.5.51.1.2 ObjectPath Properties 255](#_Toc491431400)

[3.2.5.51.1.2.1 DescriptionResource 255](#_Toc491431401)

[3.2.5.51.1.2.2 TitleResource 255](#_Toc491431402)

[3.2.5.51.2 Methods 255](#_Toc491431403)

[3.2.5.51.2.1 Scalar Methods 255](#_Toc491431404)

[3.2.5.51.2.1.1 DeleteObject 255](#_Toc491431405)

[3.2.5.51.2.1.2 SetShowInDisplayForm 255](#_Toc491431406)

[3.2.5.51.2.1.3 SetShowInEditForm 255](#_Toc491431407)

[3.2.5.51.2.1.4 SetShowInNewForm 256](#_Toc491431408)

[3.2.5.51.2.1.5 Update 256](#_Toc491431409)

[3.2.5.51.2.1.6 UpdateAndPushChanges 256](#_Toc491431410)

[3.2.5.51.2.1.7 ValidateSetValue 257](#_Toc491431411)

[3.2.5.51.2.2 ObjectPath Methods 257](#_Toc491431412)

[3.2.5.52 Microsoft.SharePoint.Client.FieldMultiLineText 257](#_Toc491431413)

[3.2.5.52.1 Properties 257](#_Toc491431414)

[3.2.5.52.1.1 Scalar Properties 257](#_Toc491431415)

[3.2.5.52.1.1.1 AllowHyperlink 257](#_Toc491431416)

[3.2.5.52.1.1.2 AppendOnly 257](#_Toc491431417)

[3.2.5.52.1.1.3 CanBeDeleted 258](#_Toc491431418)

[3.2.5.52.1.1.4 DefaultValue 258](#_Toc491431419)

[3.2.5.52.1.1.5 Description 258](#_Toc491431420)

[3.2.5.52.1.1.6 Direction 258](#_Toc491431421)

[3.2.5.52.1.1.7 EnforceUniqueValues 258](#_Toc491431422)

[3.2.5.52.1.1.8 FieldTypeKind 259](#_Toc491431423)

[3.2.5.52.1.1.9 Filterable 259](#_Toc491431424)

[3.2.5.52.1.1.10 FromBaseType 259](#_Toc491431425)

[3.2.5.52.1.1.11 Group 259](#_Toc491431426)

[3.2.5.52.1.1.12 Hidden 260](#_Toc491431427)

[3.2.5.52.1.1.13 Id 260](#_Toc491431428)

[3.2.5.52.1.1.14 InternalName 260](#_Toc491431429)

[3.2.5.52.1.1.15 NumberOfLines 260](#_Toc491431430)

[3.2.5.52.1.1.16 ReadOnlyField 260](#_Toc491431431)

[3.2.5.52.1.1.17 Required 260](#_Toc491431432)

[3.2.5.52.1.1.18 RestrictedMode 261](#_Toc491431433)

[3.2.5.52.1.1.19 RichText 261](#_Toc491431434)

[3.2.5.52.1.1.20 SchemaXml 261](#_Toc491431435)

[3.2.5.52.1.1.21 Scope 261](#_Toc491431436)

[3.2.5.52.1.1.22 Sealed 261](#_Toc491431437)

[3.2.5.52.1.1.23 Sortable 262](#_Toc491431438)

[3.2.5.52.1.1.24 StaticName 262](#_Toc491431439)

[3.2.5.52.1.1.25 Title 262](#_Toc491431440)

[3.2.5.52.1.1.26 TypeAsString 262](#_Toc491431441)

[3.2.5.52.1.1.27 TypeDisplayName 262](#_Toc491431442)

[3.2.5.52.1.1.28 TypeShortDescription 263](#_Toc491431443)

[3.2.5.52.1.1.29 ValidationFormula 263](#_Toc491431444)

[3.2.5.52.1.1.30 ValidationMessage 263](#_Toc491431445)

[3.2.5.52.1.1.31 WikiLinking 263](#_Toc491431446)

[3.2.5.52.1.1.32 JSLink 263](#_Toc491431447)

[3.2.5.52.1.1.33 EntityPropertyName 264](#_Toc491431448)

[3.2.5.52.1.1.34 Indexed 264](#_Toc491431449)

[3.2.5.52.1.1.35 SchemaXmlWithResourceTokens 264](#_Toc491431450)

[3.2.5.52.1.1.36 AutoIndexed 264](#_Toc491431451)

[3.2.5.52.1.2 ObjectPath Properties 264](#_Toc491431452)

[3.2.5.52.1.2.1 DescriptionResource 264](#_Toc491431453)

[3.2.5.52.1.2.2 TitleResource 264](#_Toc491431454)

[3.2.5.52.2 Methods 264](#_Toc491431455)

[3.2.5.52.2.1 Scalar Methods 264](#_Toc491431456)

[3.2.5.52.2.1.1 DeleteObject 264](#_Toc491431457)

[3.2.5.52.2.1.2 SetShowInDisplayForm 265](#_Toc491431458)

[3.2.5.52.2.1.3 SetShowInEditForm 265](#_Toc491431459)

[3.2.5.52.2.1.4 SetShowInNewForm 265](#_Toc491431460)

[3.2.5.52.2.1.5 Update 265](#_Toc491431461)

[3.2.5.52.2.1.6 UpdateAndPushChanges 266](#_Toc491431462)

[3.2.5.52.2.1.7 ValidateSetValue 266](#_Toc491431463)

[3.2.5.52.2.2 ObjectPath Methods 266](#_Toc491431464)

[3.2.5.53 Microsoft.SharePoint.Client.FieldNumber 267](#_Toc491431465)

[3.2.5.53.1 Properties 267](#_Toc491431466)

[3.2.5.53.1.1 Scalar Properties 267](#_Toc491431467)

[3.2.5.53.1.1.1 CanBeDeleted 267](#_Toc491431468)

[3.2.5.53.1.1.2 DefaultValue 267](#_Toc491431469)

[3.2.5.53.1.1.3 Description 267](#_Toc491431470)

[3.2.5.53.1.1.4 Direction 267](#_Toc491431471)

[3.2.5.53.1.1.5 EnforceUniqueValues 268](#_Toc491431472)

[3.2.5.53.1.1.6 FieldTypeKind 268](#_Toc491431473)

[3.2.5.53.1.1.7 Filterable 268](#_Toc491431474)

[3.2.5.53.1.1.8 FromBaseType 268](#_Toc491431475)

[3.2.5.53.1.1.9 Group 269](#_Toc491431476)

[3.2.5.53.1.1.10 Hidden 269](#_Toc491431477)

[3.2.5.53.1.1.11 Id 269](#_Toc491431478)

[3.2.5.53.1.1.12 InternalName 269](#_Toc491431479)

[3.2.5.53.1.1.13 MaximumValue 269](#_Toc491431480)

[3.2.5.53.1.1.14 MinimumValue 269](#_Toc491431481)

[3.2.5.53.1.1.15 ReadOnlyField 270](#_Toc491431482)

[3.2.5.53.1.1.16 Required 270](#_Toc491431483)

[3.2.5.53.1.1.17 SchemaXml 270](#_Toc491431484)

[3.2.5.53.1.1.18 Scope 270](#_Toc491431485)

[3.2.5.53.1.1.19 Sealed 271](#_Toc491431486)

[3.2.5.53.1.1.20 Sortable 271](#_Toc491431487)

[3.2.5.53.1.1.21 StaticName 271](#_Toc491431488)

[3.2.5.53.1.1.22 Title 271](#_Toc491431489)

[3.2.5.53.1.1.23 TypeAsString 271](#_Toc491431490)

[3.2.5.53.1.1.24 TypeDisplayName 272](#_Toc491431491)

[3.2.5.53.1.1.25 TypeShortDescription 272](#_Toc491431492)

[3.2.5.53.1.1.26 ValidationFormula 272](#_Toc491431493)

[3.2.5.53.1.1.27 ValidationMessage 272](#_Toc491431494)

[3.2.5.53.1.1.28 JSLink 272](#_Toc491431495)

[3.2.5.53.1.1.29 EntityPropertyName 272](#_Toc491431496)

[3.2.5.53.1.1.30 Indexed 273](#_Toc491431497)

[3.2.5.53.1.1.31 SchemaXmlWithResourceTokens 273](#_Toc491431498)

[3.2.5.53.1.1.32 AutoIndexed 273](#_Toc491431499)

[3.2.5.53.1.2 ObjectPath Properties 273](#_Toc491431500)

[3.2.5.53.1.2.1 DescriptionResource 273](#_Toc491431501)

[3.2.5.53.1.2.2 TitleResource 273](#_Toc491431502)

[3.2.5.53.2 Methods 273](#_Toc491431503)

[3.2.5.53.2.1 Scalar Methods 273](#_Toc491431504)

[3.2.5.53.2.1.1 DeleteObject 273](#_Toc491431505)

[3.2.5.53.2.1.2 SetShowInDisplayForm 274](#_Toc491431506)

[3.2.5.53.2.1.3 SetShowInEditForm 274](#_Toc491431507)

[3.2.5.53.2.1.4 SetShowInNewForm 274](#_Toc491431508)

[3.2.5.53.2.1.5 Update 274](#_Toc491431509)

[3.2.5.53.2.1.6 UpdateAndPushChanges 275](#_Toc491431510)

[3.2.5.53.2.1.7 ValidateSetValue 275](#_Toc491431511)

[3.2.5.53.2.2 ObjectPath Methods 275](#_Toc491431512)

[3.2.5.54 Microsoft.SharePoint.Client.FieldRatingScale 276](#_Toc491431513)

[3.2.5.54.1 Properties 276](#_Toc491431514)

[3.2.5.54.1.1 Scalar Properties 276](#_Toc491431515)

[3.2.5.54.1.1.1 CanBeDeleted 276](#_Toc491431516)

[3.2.5.54.1.1.2 Choices 276](#_Toc491431517)

[3.2.5.54.1.1.3 DefaultValue 276](#_Toc491431518)

[3.2.5.54.1.1.4 Description 276](#_Toc491431519)

[3.2.5.54.1.1.5 Direction 276](#_Toc491431520)

[3.2.5.54.1.1.6 EnforceUniqueValues 277](#_Toc491431521)

[3.2.5.54.1.1.7 FieldTypeKind 277](#_Toc491431522)

[3.2.5.54.1.1.8 FillInChoice 277](#_Toc491431523)

[3.2.5.54.1.1.9 Filterable 278](#_Toc491431524)

[3.2.5.54.1.1.10 FromBaseType 278](#_Toc491431525)

[3.2.5.54.1.1.11 GridEndNumber 278](#_Toc491431526)

[3.2.5.54.1.1.12 GridNAOptionText 278](#_Toc491431527)

[3.2.5.54.1.1.13 GridStartNumber 278](#_Toc491431528)

[3.2.5.54.1.1.14 GridTextRangeAverage 278](#_Toc491431529)

[3.2.5.54.1.1.15 GridTextRangeHigh 278](#_Toc491431530)

[3.2.5.54.1.1.16 GridTextRangeLow 278](#_Toc491431531)

[3.2.5.54.1.1.17 Group 279](#_Toc491431532)

[3.2.5.54.1.1.18 Hidden 279](#_Toc491431533)

[3.2.5.54.1.1.19 Id 279](#_Toc491431534)

[3.2.5.54.1.1.20 InternalName 279](#_Toc491431535)

[3.2.5.54.1.1.21 Mappings 279](#_Toc491431536)

[3.2.5.54.1.1.22 RangeCount 280](#_Toc491431537)

[3.2.5.54.1.1.23 ReadOnlyField 280](#_Toc491431538)

[3.2.5.54.1.1.24 Required 280](#_Toc491431539)

[3.2.5.54.1.1.25 SchemaXml 280](#_Toc491431540)

[3.2.5.54.1.1.26 Scope 281](#_Toc491431541)

[3.2.5.54.1.1.27 Sealed 281](#_Toc491431542)

[3.2.5.54.1.1.28 Sortable 281](#_Toc491431543)

[3.2.5.54.1.1.29 StaticName 281](#_Toc491431544)

[3.2.5.54.1.1.30 Title 281](#_Toc491431545)

[3.2.5.54.1.1.31 TypeAsString 281](#_Toc491431546)

[3.2.5.54.1.1.32 TypeDisplayName 282](#_Toc491431547)

[3.2.5.54.1.1.33 TypeShortDescription 282](#_Toc491431548)

[3.2.5.54.1.1.34 ValidationFormula 282](#_Toc491431549)

[3.2.5.54.1.1.35 ValidationMessage 282](#_Toc491431550)

[3.2.5.54.1.1.36 JSLink 282](#_Toc491431551)

[3.2.5.54.1.1.37 EntityPropertyName 282](#_Toc491431552)

[3.2.5.54.1.1.38 Indexed 283](#_Toc491431553)

[3.2.5.54.1.1.39 SchemaXmlWithResourceTokens 283](#_Toc491431554)

[3.2.5.54.1.1.40 AutoIndexed 283](#_Toc491431555)

[3.2.5.54.1.2 ObjectPath Properties 283](#_Toc491431556)

[3.2.5.54.1.2.1 DescriptionResource 283](#_Toc491431557)

[3.2.5.54.1.2.2 TitleResource 283](#_Toc491431558)

[3.2.5.54.2 Methods 283](#_Toc491431559)

[3.2.5.54.2.1 Scalar Methods 283](#_Toc491431560)

[3.2.5.54.2.1.1 DeleteObject 283](#_Toc491431561)

[3.2.5.54.2.1.2 SetShowInDisplayForm 284](#_Toc491431562)

[3.2.5.54.2.1.3 SetShowInEditForm 284](#_Toc491431563)

[3.2.5.54.2.1.4 SetShowInNewForm 284](#_Toc491431564)

[3.2.5.54.2.1.5 Update 284](#_Toc491431565)

[3.2.5.54.2.1.6 UpdateAndPushChanges 285](#_Toc491431566)

[3.2.5.54.2.1.7 ValidateSetValue 285](#_Toc491431567)

[3.2.5.54.2.2 ObjectPath Methods 285](#_Toc491431568)

[3.2.5.55 Microsoft.SharePoint.Client.FieldRatingScaleQuestionAnswer 286](#_Toc491431569)

[3.2.5.55.1 Properties 286](#_Toc491431570)

[3.2.5.55.1.1 Scalar Properties 286](#_Toc491431571)

[3.2.5.55.1.1.1 Answer 286](#_Toc491431572)

[3.2.5.55.1.1.2 Question 286](#_Toc491431573)

[3.2.5.55.1.2 ObjectPath Properties 286](#_Toc491431574)

[3.2.5.56 Microsoft.SharePoint.Client.FieldStringValues 286](#_Toc491431575)

[3.2.5.56.1 Properties 286](#_Toc491431576)

[3.2.5.56.1.1 Scalar Properties 286](#_Toc491431577)

[3.2.5.56.1.2 ObjectPath Properties 286](#_Toc491431578)

[3.2.5.56.2 Methods 286](#_Toc491431579)

[3.2.5.56.2.1 Scalar Methods 286](#_Toc491431580)

[3.2.5.56.2.2 ObjectPath Methods 287](#_Toc491431581)

[3.2.5.57 Microsoft.SharePoint.Client.FieldText 287](#_Toc491431582)

[3.2.5.57.1 Properties 287](#_Toc491431583)

[3.2.5.57.1.1 Scalar Properties 287](#_Toc491431584)

[3.2.5.57.1.1.1 CanBeDeleted 287](#_Toc491431585)

[3.2.5.57.1.1.2 DefaultValue 287](#_Toc491431586)

[3.2.5.57.1.1.3 Description 287](#_Toc491431587)

[3.2.5.57.1.1.4 Direction 287](#_Toc491431588)

[3.2.5.57.1.1.5 EnforceUniqueValues 288](#_Toc491431589)

[3.2.5.57.1.1.6 FieldTypeKind 288](#_Toc491431590)

[3.2.5.57.1.1.7 Filterable 288](#_Toc491431591)

[3.2.5.57.1.1.8 FromBaseType 288](#_Toc491431592)

[3.2.5.57.1.1.9 Group 289](#_Toc491431593)

[3.2.5.57.1.1.10 Hidden 289](#_Toc491431594)

[3.2.5.57.1.1.11 Id 289](#_Toc491431595)

[3.2.5.57.1.1.12 InternalName 289](#_Toc491431596)

[3.2.5.57.1.1.13 MaxLength 289](#_Toc491431597)

[3.2.5.57.1.1.14 ReadOnlyField 289](#_Toc491431598)

[3.2.5.57.1.1.15 Required 290](#_Toc491431599)

[3.2.5.57.1.1.16 SchemaXml 290](#_Toc491431600)

[3.2.5.57.1.1.17 Scope 290](#_Toc491431601)

[3.2.5.57.1.1.18 Sealed 291](#_Toc491431602)

[3.2.5.57.1.1.19 Sortable 291](#_Toc491431603)

[3.2.5.57.1.1.20 StaticName 291](#_Toc491431604)

[3.2.5.57.1.1.21 Title 291](#_Toc491431605)

[3.2.5.57.1.1.22 TypeAsString 291](#_Toc491431606)

[3.2.5.57.1.1.23 TypeDisplayName 291](#_Toc491431607)

[3.2.5.57.1.1.24 TypeShortDescription 292](#_Toc491431608)

[3.2.5.57.1.1.25 ValidationFormula 292](#_Toc491431609)

[3.2.5.57.1.1.26 ValidationMessage 292](#_Toc491431610)

[3.2.5.57.1.1.27 JSLink 292](#_Toc491431611)

[3.2.5.57.1.1.28 EntityPropertyName 292](#_Toc491431612)

[3.2.5.57.1.1.29 Indexed 292](#_Toc491431613)

[3.2.5.57.1.1.30 SchemaXmlWithResourceTokens 293](#_Toc491431614)

[3.2.5.57.1.1.31 AutoIndexed 293](#_Toc491431615)

[3.2.5.57.1.2 ObjectPath Properties 293](#_Toc491431616)

[3.2.5.57.1.2.1 DescriptionResource 293](#_Toc491431617)

[3.2.5.57.1.2.2 TitleResource 293](#_Toc491431618)

[3.2.5.57.2 Methods 293](#_Toc491431619)

[3.2.5.57.2.1 Scalar Methods 293](#_Toc491431620)

[3.2.5.57.2.1.1 DeleteObject 293](#_Toc491431621)

[3.2.5.57.2.1.2 SetShowInDisplayForm 293](#_Toc491431622)

[3.2.5.57.2.1.3 SetShowInEditForm 294](#_Toc491431623)

[3.2.5.57.2.1.4 SetShowInNewForm 294](#_Toc491431624)

[3.2.5.57.2.1.5 Update 294](#_Toc491431625)

[3.2.5.57.2.1.6 UpdateAndPushChanges 294](#_Toc491431626)

[3.2.5.57.2.1.7 ValidateSetValue 295](#_Toc491431627)

[3.2.5.57.2.2 ObjectPath Methods 295](#_Toc491431628)

[3.2.5.58 Microsoft.SharePoint.Client.FieldType 295](#_Toc491431629)

[3.2.5.58.1 Field Values 295](#_Toc491431630)

[3.2.5.58.1.1 Invalid 295](#_Toc491431631)

[3.2.5.58.1.2 Integer 296](#_Toc491431632)

[3.2.5.58.1.3 Text 296](#_Toc491431633)

[3.2.5.58.1.4 Note 296](#_Toc491431634)

[3.2.5.58.1.5 DateTime 296](#_Toc491431635)

[3.2.5.58.1.6 Counter 296](#_Toc491431636)

[3.2.5.58.1.7 Choice 296](#_Toc491431637)

[3.2.5.58.1.8 Lookup 296](#_Toc491431638)

[3.2.5.58.1.9 Boolean 296](#_Toc491431639)

[3.2.5.58.1.10 Number 296](#_Toc491431640)

[3.2.5.58.1.11 Currency 296](#_Toc491431641)

[3.2.5.58.1.12 URL 297](#_Toc491431642)

[3.2.5.58.1.13 Computed 297](#_Toc491431643)

[3.2.5.58.1.14 Threading 297](#_Toc491431644)

[3.2.5.58.1.15 Guid 297](#_Toc491431645)

[3.2.5.58.1.16 MultiChoice 297](#_Toc491431646)

[3.2.5.58.1.17 GridChoice 297](#_Toc491431647)

[3.2.5.58.1.18 Calculated 297](#_Toc491431648)

[3.2.5.58.1.19 File 297](#_Toc491431649)

[3.2.5.58.1.20 Attachments 297](#_Toc491431650)

[3.2.5.58.1.21 User 297](#_Toc491431651)

[3.2.5.58.1.22 Recurrence 298](#_Toc491431652)

[3.2.5.58.1.23 CrossProjectLink 298](#_Toc491431653)

[3.2.5.58.1.24 ModStat 298](#_Toc491431654)

[3.2.5.58.1.25 Error 298](#_Toc491431655)

[3.2.5.58.1.26 ContentTypeId 298](#_Toc491431656)

[3.2.5.58.1.27 PageSeparator 298](#_Toc491431657)

[3.2.5.58.1.28 ThreadIndex 298](#_Toc491431658)

[3.2.5.58.1.29 WorkflowStatus 298](#_Toc491431659)

[3.2.5.58.1.30 AllDayEvent 298](#_Toc491431660)

[3.2.5.58.1.31 WorkflowEventType 299](#_Toc491431661)

[3.2.5.58.1.32 MaxItems 299](#_Toc491431662)

[3.2.5.58.1.33 Geolocation 299](#_Toc491431663)

[3.2.5.58.1.34 OutcomeChoice 299](#_Toc491431664)

[3.2.5.59 Microsoft.SharePoint.Client.FieldUrl 299](#_Toc491431665)

[3.2.5.59.1 Properties 299](#_Toc491431666)

[3.2.5.59.1.1 Scalar Properties 299](#_Toc491431667)

[3.2.5.59.1.1.1 CanBeDeleted 299](#_Toc491431668)

[3.2.5.59.1.1.2 DefaultValue 299](#_Toc491431669)

[3.2.5.59.1.1.3 Description 300](#_Toc491431670)

[3.2.5.59.1.1.4 Direction 300](#_Toc491431671)

[3.2.5.59.1.1.5 DisplayFormat 300](#_Toc491431672)

[3.2.5.59.1.1.6 EnforceUniqueValues 300](#_Toc491431673)

[3.2.5.59.1.1.7 FieldTypeKind 301](#_Toc491431674)

[3.2.5.59.1.1.8 Filterable 301](#_Toc491431675)

[3.2.5.59.1.1.9 FromBaseType 301](#_Toc491431676)

[3.2.5.59.1.1.10 Group 301](#_Toc491431677)

[3.2.5.59.1.1.11 Hidden 301](#_Toc491431678)

[3.2.5.59.1.1.12 Id 302](#_Toc491431679)

[3.2.5.59.1.1.13 InternalName 302](#_Toc491431680)

[3.2.5.59.1.1.14 ReadOnlyField 302](#_Toc491431681)

[3.2.5.59.1.1.15 Required 302](#_Toc491431682)

[3.2.5.59.1.1.16 SchemaXml 302](#_Toc491431683)

[3.2.5.59.1.1.17 Scope 303](#_Toc491431684)

[3.2.5.59.1.1.18 Sealed 303](#_Toc491431685)

[3.2.5.59.1.1.19 Sortable 303](#_Toc491431686)

[3.2.5.59.1.1.20 StaticName 303](#_Toc491431687)

[3.2.5.59.1.1.21 Title 303](#_Toc491431688)

[3.2.5.59.1.1.22 TypeAsString 303](#_Toc491431689)

[3.2.5.59.1.1.23 TypeDisplayName 304](#_Toc491431690)

[3.2.5.59.1.1.24 TypeShortDescription 304](#_Toc491431691)

[3.2.5.59.1.1.25 ValidationFormula 304](#_Toc491431692)

[3.2.5.59.1.1.26 ValidationMessage 304](#_Toc491431693)

[3.2.5.59.1.1.27 JSLink 304](#_Toc491431694)

[3.2.5.59.1.1.28 EntityPropertyName 305](#_Toc491431695)

[3.2.5.59.1.1.29 Indexed 305](#_Toc491431696)

[3.2.5.59.1.1.30 SchemaXmlWithResourceTokens 305](#_Toc491431697)

[3.2.5.59.1.1.31 AutoIndexed 305](#_Toc491431698)

[3.2.5.59.1.2 ObjectPath Properties 305](#_Toc491431699)

[3.2.5.59.1.2.1 DescriptionResource 305](#_Toc491431700)

[3.2.5.59.1.2.2 TitleResource 305](#_Toc491431701)

[3.2.5.59.2 Methods 305](#_Toc491431702)

[3.2.5.59.2.1 Scalar Methods 305](#_Toc491431703)

[3.2.5.59.2.1.1 DeleteObject 306](#_Toc491431704)

[3.2.5.59.2.1.2 SetShowInDisplayForm 306](#_Toc491431705)

[3.2.5.59.2.1.3 SetShowInEditForm 306](#_Toc491431706)

[3.2.5.59.2.1.4 SetShowInNewForm 306](#_Toc491431707)

[3.2.5.59.2.1.5 Update 306](#_Toc491431708)

[3.2.5.59.2.1.6 UpdateAndPushChanges 307](#_Toc491431709)

[3.2.5.59.2.1.7 ValidateSetValue 307](#_Toc491431710)

[3.2.5.59.2.2 ObjectPath Methods 307](#_Toc491431711)

[3.2.5.60 Microsoft.SharePoint.Client.FieldUrlValue 308](#_Toc491431712)

[3.2.5.60.1 Properties 308](#_Toc491431713)

[3.2.5.60.1.1 Scalar Properties 308](#_Toc491431714)

[3.2.5.60.1.1.1 Description 308](#_Toc491431715)

[3.2.5.60.1.1.2 Url 308](#_Toc491431716)

[3.2.5.60.1.2 ObjectPath Properties 308](#_Toc491431717)

[3.2.5.61 Microsoft.SharePoint.Client.FieldUser 308](#_Toc491431718)

[3.2.5.61.1 Properties 308](#_Toc491431719)

[3.2.5.61.1.1 Scalar Properties 308](#_Toc491431720)

[3.2.5.61.1.1.1 AllowDisplay 308](#_Toc491431721)

[3.2.5.61.1.1.2 AllowMultipleValues 309](#_Toc491431722)

[3.2.5.61.1.1.3 CanBeDeleted 309](#_Toc491431723)

[3.2.5.61.1.1.4 DefaultValue 309](#_Toc491431724)

[3.2.5.61.1.1.5 Description 309](#_Toc491431725)

[3.2.5.61.1.1.6 Direction 309](#_Toc491431726)

[3.2.5.61.1.1.7 EnforceUniqueValues 310](#_Toc491431727)

[3.2.5.61.1.1.8 FieldTypeKind 310](#_Toc491431728)

[3.2.5.61.1.1.9 Filterable 310](#_Toc491431729)

[3.2.5.61.1.1.10 FromBaseType 310](#_Toc491431730)

[3.2.5.61.1.1.11 Group 310](#_Toc491431731)

[3.2.5.61.1.1.12 Hidden 311](#_Toc491431732)

[3.2.5.61.1.1.13 Id 311](#_Toc491431733)

[3.2.5.61.1.1.14 InternalName 311](#_Toc491431734)

[3.2.5.61.1.1.15 IsRelationship 311](#_Toc491431735)

[3.2.5.61.1.1.16 LookupField 311](#_Toc491431736)

[3.2.5.61.1.1.17 LookupList 312](#_Toc491431737)

[3.2.5.61.1.1.18 LookupWebId 312](#_Toc491431738)

[3.2.5.61.1.1.19 Presence 312](#_Toc491431739)

[3.2.5.61.1.1.20 PrimaryFieldId 312](#_Toc491431740)

[3.2.5.61.1.1.21 ReadOnlyField 313](#_Toc491431741)

[3.2.5.61.1.1.22 RelationshipDeleteBehavior 313](#_Toc491431742)

[3.2.5.61.1.1.23 Required 313](#_Toc491431743)

[3.2.5.61.1.1.24 SchemaXml 314](#_Toc491431744)

[3.2.5.61.1.1.25 Scope 314](#_Toc491431745)

[3.2.5.61.1.1.26 Sealed 314](#_Toc491431746)

[3.2.5.61.1.1.27 SelectionGroup 314](#_Toc491431747)

[3.2.5.61.1.1.28 SelectionMode 314](#_Toc491431748)

[3.2.5.61.1.1.29 Sortable 314](#_Toc491431749)

[3.2.5.61.1.1.30 StaticName 315](#_Toc491431750)

[3.2.5.61.1.1.31 Title 315](#_Toc491431751)

[3.2.5.61.1.1.32 TypeAsString 315](#_Toc491431752)

[3.2.5.61.1.1.33 TypeDisplayName 315](#_Toc491431753)

[3.2.5.61.1.1.34 TypeShortDescription 315](#_Toc491431754)

[3.2.5.61.1.1.35 ValidationFormula 316](#_Toc491431755)

[3.2.5.61.1.1.36 ValidationMessage 316](#_Toc491431756)

[3.2.5.61.1.1.37 Indexed 316](#_Toc491431757)

[3.2.5.61.1.1.38 JSLink 316](#_Toc491431758)

[3.2.5.61.1.1.39 EntityPropertyName 316](#_Toc491431759)

[3.2.5.61.1.1.40 SchemaXmlWithResourceTokens 316](#_Toc491431760)

[3.2.5.61.1.1.41 AutoIndexed 316](#_Toc491431761)

[3.2.5.61.1.2 ObjectPath Properties 317](#_Toc491431762)

[3.2.5.61.1.2.1 DescriptionResource 317](#_Toc491431763)

[3.2.5.61.1.2.2 TitleResource 317](#_Toc491431764)

[3.2.5.61.2 Methods 317](#_Toc491431765)

[3.2.5.61.2.1 Scalar Methods 317](#_Toc491431766)

[3.2.5.61.2.1.1 DeleteObject 317](#_Toc491431767)

[3.2.5.61.2.1.2 SetShowInDisplayForm 317](#_Toc491431768)

[3.2.5.61.2.1.3 SetShowInEditForm 317](#_Toc491431769)

[3.2.5.61.2.1.4 SetShowInNewForm 318](#_Toc491431770)

[3.2.5.61.2.1.5 Update 318](#_Toc491431771)

[3.2.5.61.2.1.6 UpdateAndPushChanges 318](#_Toc491431772)

[3.2.5.61.2.1.7 ValidateSetValue 319](#_Toc491431773)

[3.2.5.61.2.2 ObjectPath Methods 319](#_Toc491431774)

[3.2.5.62 Microsoft.SharePoint.Client.FieldUserSelectionMode 319](#_Toc491431775)

[3.2.5.62.1 Field Values 319](#_Toc491431776)

[3.2.5.62.1.1 PeopleOnly 319](#_Toc491431777)

[3.2.5.62.1.2 PeopleAndGroups 319](#_Toc491431778)

[3.2.5.63 Microsoft.SharePoint.Client.FieldUserValue 319](#_Toc491431779)

[3.2.5.63.1 Properties 320](#_Toc491431780)

[3.2.5.63.1.1 Scalar Properties 320](#_Toc491431781)

[3.2.5.63.1.1.1 Email 320](#_Toc491431782)

[3.2.5.63.1.1.2 LookupId 320](#_Toc491431783)

[3.2.5.63.1.1.3 LookupValue 320](#_Toc491431784)

[3.2.5.63.1.2 ObjectPath Properties 320](#_Toc491431785)

[3.2.5.64 Microsoft.SharePoint.Client.File 320](#_Toc491431786)

[3.2.5.64.1 Properties 320](#_Toc491431787)

[3.2.5.64.1.1 Scalar Properties 320](#_Toc491431788)

[3.2.5.64.1.1.1 CheckInComment 320](#_Toc491431789)

[3.2.5.64.1.1.2 CheckOutType 321](#_Toc491431790)

[3.2.5.64.1.1.3 CustomizedPageStatus 321](#_Toc491431791)

[3.2.5.64.1.1.4 ETag 321](#_Toc491431792)

[3.2.5.64.1.1.5 Exists 321](#_Toc491431793)

[3.2.5.64.1.1.6 Level 321](#_Toc491431794)

[3.2.5.64.1.1.7 MajorVersion 321](#_Toc491431795)

[3.2.5.64.1.1.8 MinorVersion 322](#_Toc491431796)

[3.2.5.64.1.1.9 Name 322](#_Toc491431797)

[3.2.5.64.1.1.10 ServerRelativeUrl 322](#_Toc491431798)

[3.2.5.64.1.1.11 TimeCreated 322](#_Toc491431799)

[3.2.5.64.1.1.12 TimeLastModified 323](#_Toc491431800)

[3.2.5.64.1.1.13 Title 323](#_Toc491431801)

[3.2.5.64.1.1.14 UIVersion 323](#_Toc491431802)

[3.2.5.64.1.1.15 UIVersionLabel 324](#_Toc491431803)

[3.2.5.64.1.1.16 Length 324](#_Toc491431804)

[3.2.5.64.1.1.17 ContentTag 324](#_Toc491431805)

[3.2.5.64.1.1.18 IrmEnabled 324](#_Toc491431806)

[3.2.5.64.1.1.19 LinkingUrl 324](#_Toc491431807)

[3.2.5.64.1.1.20 UniqueId 325](#_Toc491431808)

[3.2.5.64.1.2 ObjectPath Properties 325](#_Toc491431809)

[3.2.5.64.1.2.1 Author 325](#_Toc491431810)

[3.2.5.64.1.2.2 CheckedOutByUser 325](#_Toc491431811)

[3.2.5.64.1.2.3 EffectiveInformationRightsManagementSettings 325](#_Toc491431812)

[3.2.5.64.1.2.4 InformationRightsManagementSettings 325](#_Toc491431813)

[3.2.5.64.1.2.5 ListItemAllFields 326](#_Toc491431814)

[3.2.5.64.1.2.6 LockedByUser 326](#_Toc491431815)

[3.2.5.64.1.2.7 ModifiedBy 326](#_Toc491431816)

[3.2.5.64.1.2.8 Properties 326](#_Toc491431817)

[3.2.5.64.1.2.9 Versions 326](#_Toc491431818)

[3.2.5.64.2 Methods 327](#_Toc491431819)

[3.2.5.64.2.1 Scalar Methods 327](#_Toc491431820)

[3.2.5.64.2.1.1 CheckIn 327](#_Toc491431821)

[3.2.5.64.2.1.2 CheckOut 327](#_Toc491431822)

[3.2.5.64.2.1.3 CopyTo 327](#_Toc491431823)

[3.2.5.64.2.1.4 DeleteObject 328](#_Toc491431824)

[3.2.5.64.2.1.5 MoveTo 328](#_Toc491431825)

[3.2.5.64.2.1.6 Publish 329](#_Toc491431826)

[3.2.5.64.2.1.7 Recycle 329](#_Toc491431827)

[3.2.5.64.2.1.8 SaveBinary 330](#_Toc491431828)

[3.2.5.64.2.1.9 UndoCheckOut 330](#_Toc491431829)

[3.2.5.64.2.1.10 UnPublish 330](#_Toc491431830)

[3.2.5.64.2.1.11 OpenBinaryStream 331](#_Toc491431831)

[3.2.5.64.2.1.12 SaveBinaryStream 331](#_Toc491431832)

[3.2.5.64.2.1.13 Approve 331](#_Toc491431833)

[3.2.5.64.2.1.14 Deny 331](#_Toc491431834)

[3.2.5.64.2.1.15 GetContentVerFromTag 331](#_Toc491431835)

[3.2.5.64.2.1.16 CancelUpload 332](#_Toc491431836)

[3.2.5.64.2.1.17 ContinueUpload 332](#_Toc491431837)

[3.2.5.64.2.1.18 ExecuteCobaltRequest 332](#_Toc491431838)

[3.2.5.64.2.1.19 GetImagePreviewUrl 332](#_Toc491431839)

[3.2.5.64.2.1.20 GetPreAuthorizedAccessUrl 333](#_Toc491431840)

[3.2.5.64.2.1.21 GetWOPIFrameUrl 333](#_Toc491431841)

[3.2.5.64.2.1.22 StartUpload 333](#_Toc491431842)

[3.2.5.64.2.1.23 Update 334](#_Toc491431843)

[3.2.5.64.2.2 ObjectPath Methods 334](#_Toc491431844)

[3.2.5.64.2.2.1 GetLimitedWebPartManager 334](#_Toc491431845)

[3.2.5.64.2.2.2 FinishUpload 334](#_Toc491431846)

[3.2.5.65 Microsoft.SharePoint.Client.FileCollection 334](#_Toc491431847)

[3.2.5.65.1 Properties 335](#_Toc491431848)

[3.2.5.65.1.1 Scalar Properties 335](#_Toc491431849)

[3.2.5.65.1.2 ObjectPath Properties 335](#_Toc491431850)

[3.2.5.65.2 Methods 335](#_Toc491431851)

[3.2.5.65.2.1 Scalar Methods 335](#_Toc491431852)

[3.2.5.65.2.2 ObjectPath Methods 335](#_Toc491431853)

[3.2.5.65.2.2.1 Add 335](#_Toc491431854)

[3.2.5.65.2.2.2 AddStub 335](#_Toc491431855)

[3.2.5.65.2.2.3 AddTemplateFile 336](#_Toc491431856)

[3.2.5.65.2.2.4 GetByUrl 336](#_Toc491431857)

[3.2.5.65.2.2.5 GetByUrlOrAddStub 336](#_Toc491431858)

[3.2.5.66 Microsoft.SharePoint.Client.FileCreationInformation 336](#_Toc491431859)

[3.2.5.66.1 Properties 336](#_Toc491431860)

[3.2.5.66.1.1 Scalar Properties 336](#_Toc491431861)

[3.2.5.66.1.1.1 Content 336](#_Toc491431862)

[3.2.5.66.1.1.2 Overwrite 337](#_Toc491431863)

[3.2.5.66.1.1.3 Url 337](#_Toc491431864)

[3.2.5.66.1.1.4 ContentStream 337](#_Toc491431865)

[3.2.5.66.1.2 ObjectPath Properties 337](#_Toc491431866)

[3.2.5.67 Microsoft.SharePoint.Client.FileLevel 337](#_Toc491431867)

[3.2.5.67.1 Field Values 337](#_Toc491431868)

[3.2.5.67.1.1 Published 337](#_Toc491431869)

[3.2.5.67.1.2 Draft 337](#_Toc491431870)

[3.2.5.67.1.3 Checkout 338](#_Toc491431871)

[3.2.5.68 Microsoft.SharePoint.Client.FileSaveBinaryInformation 338](#_Toc491431872)

[3.2.5.68.1 Properties 338](#_Toc491431873)

[3.2.5.68.1.1 Scalar Properties 338](#_Toc491431874)

[3.2.5.68.1.1.1 CheckRequiredFields 338](#_Toc491431875)

[3.2.5.68.1.1.2 Content 338](#_Toc491431876)

[3.2.5.68.1.1.3 ETag 338](#_Toc491431877)

[3.2.5.68.1.1.4 ContentStream 338](#_Toc491431878)

[3.2.5.68.1.1.5 FieldValues 338](#_Toc491431879)

[3.2.5.68.1.2 ObjectPath Properties 339](#_Toc491431880)

[3.2.5.69 Microsoft.SharePoint.Client.FileSystemObjectType 339](#_Toc491431881)

[3.2.5.69.1 Field Values 339](#_Toc491431882)

[3.2.5.69.1.1 Invalid 339](#_Toc491431883)

[3.2.5.69.1.2 File 339](#_Toc491431884)

[3.2.5.69.1.3 Folder 339](#_Toc491431885)

[3.2.5.69.1.4 Web 339](#_Toc491431886)

[3.2.5.70 Microsoft.SharePoint.Client.FileVersion 339](#_Toc491431887)

[3.2.5.70.1 Properties 339](#_Toc491431888)

[3.2.5.70.1.1 Scalar Properties 339](#_Toc491431889)

[3.2.5.70.1.1.1 CheckInComment 339](#_Toc491431890)

[3.2.5.70.1.1.2 Created 340](#_Toc491431891)

[3.2.5.70.1.1.3 ID 340](#_Toc491431892)

[3.2.5.70.1.1.4 IsCurrentVersion 340](#_Toc491431893)

[3.2.5.70.1.1.5 Url 340](#_Toc491431894)

[3.2.5.70.1.1.6 VersionLabel 340](#_Toc491431895)

[3.2.5.70.1.1.7 Size 340](#_Toc491431896)

[3.2.5.70.1.1.8 Length 341](#_Toc491431897)

[3.2.5.70.1.2 ObjectPath Properties 341](#_Toc491431898)

[3.2.5.70.1.2.1 CreatedBy 341](#_Toc491431899)

[3.2.5.70.2 Methods 341](#_Toc491431900)

[3.2.5.70.2.1 Scalar Methods 341](#_Toc491431901)

[3.2.5.70.2.1.1 DeleteObject 341](#_Toc491431902)

[3.2.5.70.2.1.2 OpenBinaryStream 341](#_Toc491431903)

[3.2.5.70.2.2 ObjectPath Methods 341](#_Toc491431904)

[3.2.5.71 Microsoft.SharePoint.Client.FileVersionCollection 342](#_Toc491431905)

[3.2.5.71.1 Properties 342](#_Toc491431906)

[3.2.5.71.1.1 Scalar Properties 342](#_Toc491431907)

[3.2.5.71.1.2 ObjectPath Properties 342](#_Toc491431908)

[3.2.5.71.2 Methods 342](#_Toc491431909)

[3.2.5.71.2.1 Scalar Methods 342](#_Toc491431910)

[3.2.5.71.2.1.1 DeleteAll 342](#_Toc491431911)

[3.2.5.71.2.1.2 DeleteByID 342](#_Toc491431912)

[3.2.5.71.2.1.3 DeleteByLabel 343](#_Toc491431913)

[3.2.5.71.2.1.4 RestoreByLabel 343](#_Toc491431914)

[3.2.5.71.2.2 ObjectPath Methods 343](#_Toc491431915)

[3.2.5.71.2.2.1 GetById 343](#_Toc491431916)

[3.2.5.72 Microsoft.SharePoint.Client.Folder 343](#_Toc491431917)

[3.2.5.72.1 Properties 344](#_Toc491431918)

[3.2.5.72.1.1 Scalar Properties 344](#_Toc491431919)

[3.2.5.72.1.1.1 ContentTypeOrder 344](#_Toc491431920)

[3.2.5.72.1.1.2 Exists 344](#_Toc491431921)

[3.2.5.72.1.1.3 IsWOPIEnabled 344](#_Toc491431922)

[3.2.5.72.1.1.4 ItemCount 344](#_Toc491431923)

[3.2.5.72.1.1.5 Name 344](#_Toc491431924)

[3.2.5.72.1.1.6 ProgID 344](#_Toc491431925)

[3.2.5.72.1.1.7 ServerRelativeUrl 345](#_Toc491431926)

[3.2.5.72.1.1.8 TimeCreated 345](#_Toc491431927)

[3.2.5.72.1.1.9 TimeLastModified 345](#_Toc491431928)

[3.2.5.72.1.1.10 UniqueContentTypeOrder 345](#_Toc491431929)

[3.2.5.72.1.1.11 UniqueId 345](#_Toc491431930)

[3.2.5.72.1.1.12 WelcomePage 345](#_Toc491431931)

[3.2.5.72.1.2 ObjectPath Properties 346](#_Toc491431932)

[3.2.5.72.1.2.1 Files 346](#_Toc491431933)

[3.2.5.72.1.2.2 Folders 346](#_Toc491431934)

[3.2.5.72.1.2.3 ParentFolder 346](#_Toc491431935)

[3.2.5.72.1.2.4 Properties 346](#_Toc491431936)

[3.2.5.72.1.2.5 ListItemAllFields 346](#_Toc491431937)

[3.2.5.72.1.2.6 StorageMetrics 346](#_Toc491431938)

[3.2.5.72.2 Methods 347](#_Toc491431939)

[3.2.5.72.2.1 Scalar Methods 347](#_Toc491431940)

[3.2.5.72.2.1.1 DeleteObject 347](#_Toc491431941)

[3.2.5.72.2.1.2 MoveTo 347](#_Toc491431942)

[3.2.5.72.2.1.3 Recycle 347](#_Toc491431943)

[3.2.5.72.2.1.4 Update 347](#_Toc491431944)

[3.2.5.72.2.2 ObjectPath Methods 347](#_Toc491431945)

[3.2.5.72.2.2.1 GetListItemChanges 347](#_Toc491431946)

[3.2.5.73 Microsoft.SharePoint.Client.FolderCollection 348](#_Toc491431947)

[3.2.5.73.1 Properties 348](#_Toc491431948)

[3.2.5.73.1.1 Scalar Properties 348](#_Toc491431949)

[3.2.5.73.1.2 ObjectPath Properties 348](#_Toc491431950)

[3.2.5.73.2 Methods 348](#_Toc491431951)

[3.2.5.73.2.1 Scalar Methods 348](#_Toc491431952)

[3.2.5.73.2.2 ObjectPath Methods 348](#_Toc491431953)

[3.2.5.73.2.2.1 Add 348](#_Toc491431954)

[3.2.5.73.2.2.2 AddWithOverwrite 348](#_Toc491431955)

[3.2.5.73.2.2.3 GetByUrl 348](#_Toc491431956)

[3.2.5.74 Microsoft.SharePoint.Client.Form 349](#_Toc491431957)

[3.2.5.74.1 Properties 349](#_Toc491431958)

[3.2.5.74.1.1 Scalar Properties 349](#_Toc491431959)

[3.2.5.74.1.1.1 FormType 349](#_Toc491431960)

[3.2.5.74.1.1.2 Id 349](#_Toc491431961)

[3.2.5.74.1.1.3 ServerRelativeUrl 349](#_Toc491431962)

[3.2.5.74.1.2 ObjectPath Properties 349](#_Toc491431963)

[3.2.5.74.2 Methods 349](#_Toc491431964)

[3.2.5.74.2.1 Scalar Methods 349](#_Toc491431965)

[3.2.5.74.2.2 ObjectPath Methods 350](#_Toc491431966)

[3.2.5.75 Microsoft.SharePoint.Client.FormCollection 350](#_Toc491431967)

[3.2.5.75.1 Properties 350](#_Toc491431968)

[3.2.5.75.1.1 Scalar Properties 350](#_Toc491431969)

[3.2.5.75.1.2 ObjectPath Properties 350](#_Toc491431970)

[3.2.5.75.2 Methods 350](#_Toc491431971)

[3.2.5.75.2.1 Scalar Methods 350](#_Toc491431972)

[3.2.5.75.2.2 ObjectPath Methods 350](#_Toc491431973)

[3.2.5.75.2.2.1 GetByPageType 350](#_Toc491431974)

[3.2.5.75.2.2.2 GetById 350](#_Toc491431975)

[3.2.5.76 Microsoft.SharePoint.Client.Group 351](#_Toc491431976)

[3.2.5.76.1 Properties 351](#_Toc491431977)

[3.2.5.76.1.1 Scalar Properties 351](#_Toc491431978)

[3.2.5.76.1.1.1 AllowMembersEditMembership 351](#_Toc491431979)

[3.2.5.76.1.1.2 AllowRequestToJoinLeave 351](#_Toc491431980)

[3.2.5.76.1.1.3 AutoAcceptRequestToJoinLeave 351](#_Toc491431981)

[3.2.5.76.1.1.4 CanCurrentUserEditMembership 351](#_Toc491431982)

[3.2.5.76.1.1.5 CanCurrentUserManageGroup 351](#_Toc491431983)

[3.2.5.76.1.1.6 CanCurrentUserViewMembership 351](#_Toc491431984)

[3.2.5.76.1.1.7 Description 352](#_Toc491431985)

[3.2.5.76.1.1.8 Id 352](#_Toc491431986)

[3.2.5.76.1.1.9 LoginName 352](#_Toc491431987)

[3.2.5.76.1.1.10 OnlyAllowMembersViewMembership 352](#_Toc491431988)

[3.2.5.76.1.1.11 OwnerTitle 352](#_Toc491431989)

[3.2.5.76.1.1.12 PrincipalType 352](#_Toc491431990)

[3.2.5.76.1.1.13 RequestToJoinLeaveEmailSetting 352](#_Toc491431991)

[3.2.5.76.1.1.14 Title 353](#_Toc491431992)

[3.2.5.76.1.1.15 IsHiddenInUI 353](#_Toc491431993)

[3.2.5.76.1.2 ObjectPath Properties 353](#_Toc491431994)

[3.2.5.76.1.2.1 Owner 353](#_Toc491431995)

[3.2.5.76.1.2.2 Users 353](#_Toc491431996)

[3.2.5.76.2 Methods 353](#_Toc491431997)

[3.2.5.76.2.1 Scalar Methods 353](#_Toc491431998)

[3.2.5.76.2.1.1 Update 353](#_Toc491431999)

[3.2.5.76.2.2 ObjectPath Methods 354](#_Toc491432000)

[3.2.5.77 Microsoft.SharePoint.Client.GroupCollection 354](#_Toc491432001)

[3.2.5.77.1 Properties 354](#_Toc491432002)

[3.2.5.77.1.1 Scalar Properties 354](#_Toc491432003)

[3.2.5.77.1.2 ObjectPath Properties 354](#_Toc491432004)

[3.2.5.77.2 Methods 354](#_Toc491432005)

[3.2.5.77.2.1 Scalar Methods 354](#_Toc491432006)

[3.2.5.77.2.1.1 Remove 354](#_Toc491432007)

[3.2.5.77.2.1.2 RemoveById 355](#_Toc491432008)

[3.2.5.77.2.1.3 RemoveByLoginName 355](#_Toc491432009)

[3.2.5.77.2.2 ObjectPath Methods 355](#_Toc491432010)

[3.2.5.77.2.2.1 Add 355](#_Toc491432011)

[3.2.5.77.2.2.2 GetById 355](#_Toc491432012)

[3.2.5.77.2.2.3 GetByName 355](#_Toc491432013)

[3.2.5.78 Microsoft.SharePoint.Client.GroupCreationInformation 356](#_Toc491432014)

[3.2.5.78.1 Properties 356](#_Toc491432015)

[3.2.5.78.1.1 Scalar Properties 356](#_Toc491432016)

[3.2.5.78.1.1.1 Description 356](#_Toc491432017)

[3.2.5.78.1.1.2 Title 356](#_Toc491432018)

[3.2.5.78.1.2 ObjectPath Properties 356](#_Toc491432019)

[3.2.5.79 Microsoft.SharePoint.Client.List 356](#_Toc491432020)

[3.2.5.79.1 Properties 357](#_Toc491432021)

[3.2.5.79.1.1 Scalar Properties 357](#_Toc491432022)

[3.2.5.79.1.1.1 AllowContentTypes 357](#_Toc491432023)

[3.2.5.79.1.1.2 BaseTemplate 357](#_Toc491432024)

[3.2.5.79.1.1.3 BaseType 357](#_Toc491432025)

[3.2.5.79.1.1.4 BrowserFileHandling 357](#_Toc491432026)

[3.2.5.79.1.1.5 ContentTypesEnabled 357](#_Toc491432027)

[3.2.5.79.1.1.6 Created 357](#_Toc491432028)

[3.2.5.79.1.1.7 DataSource 358](#_Toc491432029)

[3.2.5.79.1.1.8 DefaultContentApprovalWorkflowId 358](#_Toc491432030)

[3.2.5.79.1.1.9 DefaultDisplayFormUrl 358](#_Toc491432031)

[3.2.5.79.1.1.10 DefaultEditFormUrl 358](#_Toc491432032)

[3.2.5.79.1.1.11 DefaultNewFormUrl 358](#_Toc491432033)

[3.2.5.79.1.1.12 DefaultViewUrl 358](#_Toc491432034)

[3.2.5.79.1.1.13 Description 359](#_Toc491432035)

[3.2.5.79.1.1.14 Direction 359](#_Toc491432036)

[3.2.5.79.1.1.15 DocumentTemplateUrl 359](#_Toc491432037)

[3.2.5.79.1.1.16 DraftVersionVisibility 359](#_Toc491432038)

[3.2.5.79.1.1.17 EffectiveBasePermissions 359](#_Toc491432039)

[3.2.5.79.1.1.18 EnableAttachments 359](#_Toc491432040)

[3.2.5.79.1.1.19 EnableFolderCreation 360](#_Toc491432041)

[3.2.5.79.1.1.20 EnableMinorVersions 360](#_Toc491432042)

[3.2.5.79.1.1.21 EnableModeration 360](#_Toc491432043)

[3.2.5.79.1.1.22 EnableVersioning 360](#_Toc491432044)

[3.2.5.79.1.1.23 ForceCheckout 360](#_Toc491432045)

[3.2.5.79.1.1.24 HasExternalDataSource 360](#_Toc491432046)

[3.2.5.79.1.1.25 HasUniqueRoleAssignments 361](#_Toc491432047)

[3.2.5.79.1.1.26 Hidden 361](#_Toc491432048)

[3.2.5.79.1.1.27 Id 361](#_Toc491432049)

[3.2.5.79.1.1.28 ImageUrl 361](#_Toc491432050)

[3.2.5.79.1.1.29 IsApplicationList 361](#_Toc491432051)

[3.2.5.79.1.1.30 IsCatalog 361](#_Toc491432052)

[3.2.5.79.1.1.31 IsSiteAssetsLibrary 362](#_Toc491432053)

[3.2.5.79.1.1.32 ItemCount 362](#_Toc491432054)

[3.2.5.79.1.1.33 LastItemDeletedDate 362](#_Toc491432055)

[3.2.5.79.1.1.34 LastItemModifiedDate 362](#_Toc491432056)

[3.2.5.79.1.1.35 MultipleDataList 362](#_Toc491432057)

[3.2.5.79.1.1.36 NoCrawl 362](#_Toc491432058)

[3.2.5.79.1.1.37 OnQuickLaunch 363](#_Toc491432059)

[3.2.5.79.1.1.38 ParentWebUrl 363](#_Toc491432060)

[3.2.5.79.1.1.39 SchemaXml 363](#_Toc491432061)

[3.2.5.79.1.1.40 ServerTemplateCanCreateFolders 363](#_Toc491432062)

[3.2.5.79.1.1.41 TemplateFeatureId 363](#_Toc491432063)

[3.2.5.79.1.1.42 Title 363](#_Toc491432064)

[3.2.5.79.1.1.43 ValidationFormula 363](#_Toc491432065)

[3.2.5.79.1.1.44 ValidationMessage 364](#_Toc491432066)

[3.2.5.79.1.1.45 EntityTypeName 364](#_Toc491432067)

[3.2.5.79.1.1.46 ListItemEntityTypeFullName 364](#_Toc491432068)

[3.2.5.79.1.1.47 IrmEnabled 364](#_Toc491432069)

[3.2.5.79.1.1.48 IrmExpire 364](#_Toc491432070)

[3.2.5.79.1.1.49 IrmReject 365](#_Toc491432071)

[3.2.5.79.1.1.50 EffectiveBasePermissionsForUI 365](#_Toc491432072)

[3.2.5.79.1.1.51 IsPrivate 365](#_Toc491432073)

[3.2.5.79.1.1.52 CrawlNonDefaultViews 365](#_Toc491432074)

[3.2.5.79.1.1.53 CurrentChangeToken 366](#_Toc491432075)

[3.2.5.79.1.1.54 FileSavePostProcessingEnabled 366](#_Toc491432076)

[3.2.5.79.1.1.55 MajorVersionLimit 366](#_Toc491432077)

[3.2.5.79.1.1.56 MajorWithMinorVersionsLimit 366](#_Toc491432078)

[3.2.5.79.1.1.57 ParserDisabled 366](#_Toc491432079)

[3.2.5.79.1.2 ObjectPath Properties 366](#_Toc491432080)

[3.2.5.79.1.2.1 ContentTypes 366](#_Toc491432081)

[3.2.5.79.1.2.2 Fields 367](#_Toc491432082)

[3.2.5.79.1.2.3 Forms 367](#_Toc491432083)

[3.2.5.79.1.2.4 ParentWeb 367](#_Toc491432084)

[3.2.5.79.1.2.5 RoleAssignments 367](#_Toc491432085)

[3.2.5.79.1.2.6 RootFolder 367](#_Toc491432086)

[3.2.5.79.1.2.7 UserCustomActions 367](#_Toc491432087)

[3.2.5.79.1.2.8 Views 368](#_Toc491432088)

[3.2.5.79.1.2.9 WorkflowAssociations 368](#_Toc491432089)

[3.2.5.79.1.2.10 FirstUniqueAncestorSecurableObject 368](#_Toc491432090)

[3.2.5.79.1.2.11 Items 368](#_Toc491432091)

[3.2.5.79.1.2.12 InformationRightsManagementSettings 368](#_Toc491432092)

[3.2.5.79.1.2.13 EventReceivers 368](#_Toc491432093)

[3.2.5.79.1.2.14 DefaultView 369](#_Toc491432094)

[3.2.5.79.1.2.15 CreatablesInfo 369](#_Toc491432095)

[3.2.5.79.1.2.16 DescriptionResource 369](#_Toc491432096)

[3.2.5.79.1.2.17 TitleResource 369](#_Toc491432097)

[3.2.5.79.2 Methods 369](#_Toc491432098)

[3.2.5.79.2.1 Scalar Methods 369](#_Toc491432099)

[3.2.5.79.2.1.1 BreakRoleInheritance 369](#_Toc491432100)

[3.2.5.79.2.1.2 DeleteObject 370](#_Toc491432101)

[3.2.5.79.2.1.3 Recycle 370](#_Toc491432102)

[3.2.5.79.2.1.4 ResetRoleInheritance 371](#_Toc491432103)

[3.2.5.79.2.1.5 Update 371](#_Toc491432104)

[3.2.5.79.2.1.6 RenderListData 371](#_Toc491432105)

[3.2.5.79.2.1.7 GetListItemChangesSinceToken 371](#_Toc491432106)

[3.2.5.79.2.1.8 RenderListFormData 372](#_Toc491432107)

[3.2.5.79.2.1.9 SaveAsNewView 372](#_Toc491432108)

[3.2.5.79.2.1.10 GetUserEffectivePermissions 372](#_Toc491432109)

[3.2.5.79.2.1.11 ReserveListItemId 373](#_Toc491432110)

[3.2.5.79.2.1.12 RenderListDataAsStream 373](#_Toc491432111)

[3.2.5.79.2.1.13 CreateDocumentAndGetEditLink 373](#_Toc491432112)

[3.2.5.79.2.1.14 GetSpecialFolderUrl 374](#_Toc491432113)

[3.2.5.79.2.1.15 GetWebDavUrl 374](#_Toc491432114)

[3.2.5.79.2.1.16 RenderListContextMenuData 374](#_Toc491432115)

[3.2.5.79.2.1.17 RenderListFilterData 374](#_Toc491432116)

[3.2.5.79.2.2 ObjectPath Methods 374](#_Toc491432117)

[3.2.5.79.2.2.1 AddItem 375](#_Toc491432118)

[3.2.5.79.2.2.2 GetChanges 375](#_Toc491432119)

[3.2.5.79.2.2.3 GetItemById 375](#_Toc491432120)

[3.2.5.79.2.2.4 GetItemByStringId 375](#_Toc491432121)

[3.2.5.79.2.2.5 GetItems 376](#_Toc491432122)

[3.2.5.79.2.2.6 GetRelatedFields 376](#_Toc491432123)

[3.2.5.79.2.2.7 GetView 376](#_Toc491432124)

[3.2.5.79.2.2.8 GetRelatedFieldsExtendedData 376](#_Toc491432125)

[3.2.5.79.2.2.9 CreateDocument 376](#_Toc491432126)

[3.2.5.79.2.2.10 CreateDocumentFromTemplate 377](#_Toc491432127)

[3.2.5.79.2.2.11 CreateDocumentFromTemplateBytes 377](#_Toc491432128)

[3.2.5.79.2.2.12 CreateDocumentFromTemplateStream 378](#_Toc491432129)

[3.2.5.80 Microsoft.SharePoint.Client.ListCollection 378](#_Toc491432130)

[3.2.5.80.1 Properties 378](#_Toc491432131)

[3.2.5.80.1.1 Scalar Properties 378](#_Toc491432132)

[3.2.5.80.1.2 ObjectPath Properties 378](#_Toc491432133)

[3.2.5.80.2 Methods 378](#_Toc491432134)

[3.2.5.80.2.1 Scalar Methods 378](#_Toc491432135)

[3.2.5.80.2.2 ObjectPath Methods 378](#_Toc491432136)

[3.2.5.80.2.2.1 Add 379](#_Toc491432137)

[3.2.5.80.2.2.2 EnsureSiteAssetsLibrary 379](#_Toc491432138)

[3.2.5.80.2.2.3 EnsureSitePagesLibrary 379](#_Toc491432139)

[3.2.5.80.2.2.4 GetById 379](#_Toc491432140)

[3.2.5.80.2.2.5 GetByTitle 380](#_Toc491432141)

[3.2.5.81 Microsoft.SharePoint.Client.ListCreationInformation 380](#_Toc491432142)

[3.2.5.81.1 Properties 380](#_Toc491432143)

[3.2.5.81.1.1 Scalar Properties 380](#_Toc491432144)

[3.2.5.81.1.1.1 CustomSchemaXml 380](#_Toc491432145)

[3.2.5.81.1.1.2 DataSourceProperties 380](#_Toc491432146)

[3.2.5.81.1.1.3 Description 380](#_Toc491432147)

[3.2.5.81.1.1.4 DocumentTemplateType 381](#_Toc491432148)

[3.2.5.81.1.1.5 QuickLaunchOption 381](#_Toc491432149)

[3.2.5.81.1.1.6 TemplateFeatureId 381](#_Toc491432150)

[3.2.5.81.1.1.7 TemplateType 381](#_Toc491432151)

[3.2.5.81.1.1.8 Title 381](#_Toc491432152)

[3.2.5.81.1.1.9 Url 381](#_Toc491432153)

[3.2.5.81.1.2 ObjectPath Properties 381](#_Toc491432154)

[3.2.5.82 Microsoft.SharePoint.Client.ListDataSource 381](#_Toc491432155)

[3.2.5.82.1 Properties 382](#_Toc491432156)

[3.2.5.82.1.1 Scalar Properties 382](#_Toc491432157)

[3.2.5.82.1.1.1 Properties 382](#_Toc491432158)

[3.2.5.82.1.2 ObjectPath Properties 382](#_Toc491432159)

[3.2.5.83 Microsoft.SharePoint.Client.ListDataValidationExceptionValue 382](#_Toc491432160)

[3.2.5.83.1 Properties 382](#_Toc491432161)

[3.2.5.83.1.1 Scalar Properties 382](#_Toc491432162)

[3.2.5.83.1.1.1 FieldFailures 382](#_Toc491432163)

[3.2.5.83.1.1.2 ItemFailure 382](#_Toc491432164)

[3.2.5.83.1.2 ObjectPath Properties 382](#_Toc491432165)

[3.2.5.84 Microsoft.SharePoint.Client.ListDataValidationFailure 382](#_Toc491432166)

[3.2.5.84.1 Properties 383](#_Toc491432167)

[3.2.5.84.1.1 Scalar Properties 383](#_Toc491432168)

[3.2.5.84.1.1.1 DisplayName 383](#_Toc491432169)

[3.2.5.84.1.1.2 Message 383](#_Toc491432170)

[3.2.5.84.1.1.3 Name 383](#_Toc491432171)

[3.2.5.84.1.1.4 Reason 383](#_Toc491432172)

[3.2.5.84.1.1.5 ValidationType 383](#_Toc491432173)

[3.2.5.84.1.2 ObjectPath Properties 383](#_Toc491432174)

[3.2.5.85 Microsoft.SharePoint.Client.ListDataValidationFailureReason 384](#_Toc491432175)

[3.2.5.85.1 Field Values 384](#_Toc491432176)

[3.2.5.85.1.1 DataFailure 384](#_Toc491432177)

[3.2.5.85.1.2 FormulaError 384](#_Toc491432178)

[3.2.5.86 Microsoft.SharePoint.Client.ListDataValidationType 384](#_Toc491432179)

[3.2.5.86.1 Field Values 384](#_Toc491432180)

[3.2.5.86.1.1 UserFormulaField 384](#_Toc491432181)

[3.2.5.86.1.2 UserFormulaItem 384](#_Toc491432182)

[3.2.5.86.1.3 RequiredField 384](#_Toc491432183)

[3.2.5.86.1.4 ChoiceField 384](#_Toc491432184)

[3.2.5.86.1.5 MinMaxField 385](#_Toc491432185)

[3.2.5.86.1.6 TextField 385](#_Toc491432186)

[3.2.5.87 Microsoft.SharePoint.Client.ListItem 385](#_Toc491432187)

[3.2.5.87.1 Properties 387](#_Toc491432188)

[3.2.5.87.1.1 Scalar Properties 387](#_Toc491432189)

[3.2.5.87.1.1.1 DisplayName 387](#_Toc491432190)

[3.2.5.87.1.1.2 EffectiveBasePermissions 387](#_Toc491432191)

[3.2.5.87.1.1.3 FileSystemObjectType 387](#_Toc491432192)

[3.2.5.87.1.1.4 HasUniqueRoleAssignments 387](#_Toc491432193)

[3.2.5.87.1.1.5 Id 388](#_Toc491432194)

[3.2.5.87.1.1.6 EffectiveBasePermissionsForUI 388](#_Toc491432195)

[3.2.5.87.1.1.7 Client\_Title 388](#_Toc491432196)

[3.2.5.87.1.2 ObjectPath Properties 388](#_Toc491432197)

[3.2.5.87.1.2.1 ContentType 388](#_Toc491432198)

[3.2.5.87.1.2.2 FieldValuesAsHtml 388](#_Toc491432199)

[3.2.5.87.1.2.3 FieldValuesAsText 388](#_Toc491432200)

[3.2.5.87.1.2.4 FieldValuesForEdit 389](#_Toc491432201)

[3.2.5.87.1.2.5 File 389](#_Toc491432202)

[3.2.5.87.1.2.6 ParentList 389](#_Toc491432203)

[3.2.5.87.1.2.7 RoleAssignments 389](#_Toc491432204)

[3.2.5.87.1.2.8 AttachmentFiles 389](#_Toc491432205)

[3.2.5.87.1.2.9 FirstUniqueAncestorSecurableObject 389](#_Toc491432206)

[3.2.5.87.1.2.10 Folder 389](#_Toc491432207)

[3.2.5.87.1.2.11 GetDlpPolicyTip 390](#_Toc491432208)

[3.2.5.87.2 Methods 390](#_Toc491432209)

[3.2.5.87.2.1 Scalar Methods 390](#_Toc491432210)

[3.2.5.87.2.1.1 BreakRoleInheritance 390](#_Toc491432211)

[3.2.5.87.2.1.2 DeleteObject 390](#_Toc491432212)

[3.2.5.87.2.1.3 ParseAndSetFieldValue 390](#_Toc491432213)

[3.2.5.87.2.1.4 Recycle 391](#_Toc491432214)

[3.2.5.87.2.1.5 ResetRoleInheritance 391](#_Toc491432215)

[3.2.5.87.2.1.6 SetFieldValue 391](#_Toc491432216)

[3.2.5.87.2.1.7 Update 392](#_Toc491432217)

[3.2.5.87.2.1.8 GetWOPIFrameUrl 392](#_Toc491432218)

[3.2.5.87.2.1.9 ValidateUpdateListItem 392](#_Toc491432219)

[3.2.5.87.2.1.10 GetUserEffectivePermissions 393](#_Toc491432220)

[3.2.5.87.2.1.11 OverridePolicyTip 393](#_Toc491432221)

[3.2.5.87.2.2 ObjectPath Methods 393](#_Toc491432222)

[3.2.5.87.2.2.1 GetChanges 393](#_Toc491432223)

[3.2.5.88 Microsoft.SharePoint.Client.ListItemCollection 394](#_Toc491432224)

[3.2.5.88.1 Properties 394](#_Toc491432225)

[3.2.5.88.1.1 Scalar Properties 394](#_Toc491432226)

[3.2.5.88.1.1.1 ListItemCollectionPosition 394](#_Toc491432227)

[3.2.5.88.1.2 ObjectPath Properties 394](#_Toc491432228)

[3.2.5.88.2 Methods 394](#_Toc491432229)

[3.2.5.88.2.1 Scalar Methods 394](#_Toc491432230)

[3.2.5.88.2.2 ObjectPath Methods 394](#_Toc491432231)

[3.2.5.88.2.2.1 GetById 394](#_Toc491432232)

[3.2.5.88.2.2.2 GetByStringId 394](#_Toc491432233)

[3.2.5.89 Microsoft.SharePoint.Client.ListItemCollectionPosition 395](#_Toc491432234)

[3.2.5.89.1 Properties 395](#_Toc491432235)

[3.2.5.89.1.1 Scalar Properties 395](#_Toc491432236)

[3.2.5.89.1.1.1 PagingInfo 395](#_Toc491432237)

[3.2.5.89.1.2 ObjectPath Properties 396](#_Toc491432238)

[3.2.5.90 Microsoft.SharePoint.Client.ListItemCreationInformation 396](#_Toc491432239)

[3.2.5.90.1 Properties 396](#_Toc491432240)

[3.2.5.90.1.1 Scalar Properties 396](#_Toc491432241)

[3.2.5.90.1.1.1 FolderUrl 396](#_Toc491432242)

[3.2.5.90.1.1.2 LeafName 396](#_Toc491432243)

[3.2.5.90.1.1.3 UnderlyingObjectType 396](#_Toc491432244)

[3.2.5.90.1.2 ObjectPath Properties 396](#_Toc491432245)

[3.2.5.91 Microsoft.SharePoint.Client.ListTemplate 396](#_Toc491432246)

[3.2.5.91.1 Properties 397](#_Toc491432247)

[3.2.5.91.1.1 Scalar Properties 397](#_Toc491432248)

[3.2.5.91.1.1.1 AllowsFolderCreation 397](#_Toc491432249)

[3.2.5.91.1.1.2 BaseType 397](#_Toc491432250)

[3.2.5.91.1.1.3 Description 397](#_Toc491432251)

[3.2.5.91.1.1.4 FeatureId 397](#_Toc491432252)

[3.2.5.91.1.1.5 Hidden 397](#_Toc491432253)

[3.2.5.91.1.1.6 ImageUrl 397](#_Toc491432254)

[3.2.5.91.1.1.7 InternalName 398](#_Toc491432255)

[3.2.5.91.1.1.8 IsCustomTemplate 398](#_Toc491432256)

[3.2.5.91.1.1.9 ListTemplateTypeKind 398](#_Toc491432257)

[3.2.5.91.1.1.10 Name 398](#_Toc491432258)

[3.2.5.91.1.1.11 OnQuickLaunch 398](#_Toc491432259)

[3.2.5.91.1.1.12 Unique 398](#_Toc491432260)

[3.2.5.91.1.2 ObjectPath Properties 399](#_Toc491432261)

[3.2.5.91.2 Methods 399](#_Toc491432262)

[3.2.5.91.2.1 Scalar Methods 399](#_Toc491432263)

[3.2.5.91.2.1.1 GetGlobalSchemaXml 399](#_Toc491432264)

[3.2.5.91.2.2 ObjectPath Methods 399](#_Toc491432265)

[3.2.5.92 Microsoft.SharePoint.Client.ListTemplateCollection 399](#_Toc491432266)

[3.2.5.92.1 Properties 399](#_Toc491432267)

[3.2.5.92.1.1 Scalar Properties 399](#_Toc491432268)

[3.2.5.92.1.2 ObjectPath Properties 399](#_Toc491432269)

[3.2.5.92.2 Methods 399](#_Toc491432270)

[3.2.5.92.2.1 Scalar Methods 399](#_Toc491432271)

[3.2.5.92.2.2 ObjectPath Methods 399](#_Toc491432272)

[3.2.5.92.2.2.1 GetByName 399](#_Toc491432273)

[3.2.5.93 Microsoft.SharePoint.Client.ListTemplateType 400](#_Toc491432274)

[3.2.5.93.1 Field Values 400](#_Toc491432275)

[3.2.5.93.1.1 NoListTemplate 400](#_Toc491432276)

[3.2.5.93.1.2 GenericList 400](#_Toc491432277)

[3.2.5.93.1.3 DocumentLibrary 400](#_Toc491432278)

[3.2.5.93.1.4 Survey 400](#_Toc491432279)

[3.2.5.93.1.5 Links 400](#_Toc491432280)

[3.2.5.93.1.6 Announcements 400](#_Toc491432281)

[3.2.5.93.1.7 Contacts 400](#_Toc491432282)

[3.2.5.93.1.8 Events 400](#_Toc491432283)

[3.2.5.93.1.9 Tasks 401](#_Toc491432284)

[3.2.5.93.1.10 DiscussionBoard 401](#_Toc491432285)

[3.2.5.93.1.11 PictureLibrary 401](#_Toc491432286)

[3.2.5.93.1.12 DataSources 401](#_Toc491432287)

[3.2.5.93.1.13 WebTemplateCatalog 401](#_Toc491432288)

[3.2.5.93.1.14 UserInformation 401](#_Toc491432289)

[3.2.5.93.1.15 WebPartCatalog 401](#_Toc491432290)

[3.2.5.93.1.16 ListTemplateCatalog 401](#_Toc491432291)

[3.2.5.93.1.17 XMLForm 401](#_Toc491432292)

[3.2.5.93.1.18 MasterPageCatalog 401](#_Toc491432293)

[3.2.5.93.1.19 NoCodeWorkflows 402](#_Toc491432294)

[3.2.5.93.1.20 WorkflowProcess 402](#_Toc491432295)

[3.2.5.93.1.21 WebPageLibrary 402](#_Toc491432296)

[3.2.5.93.1.22 CustomGrid 402](#_Toc491432297)

[3.2.5.93.1.23 SolutionCatalog 402](#_Toc491432298)

[3.2.5.93.1.24 NoCodePublic 402](#_Toc491432299)

[3.2.5.93.1.25 ThemeCatalog 402](#_Toc491432300)

[3.2.5.93.1.26 DataConnectionLibrary 402](#_Toc491432301)

[3.2.5.93.1.27 WorkflowHistory 402](#_Toc491432302)

[3.2.5.93.1.28 GanttTasks 402](#_Toc491432303)

[3.2.5.93.1.29 Meetings 403](#_Toc491432304)

[3.2.5.93.1.30 Agenda 403](#_Toc491432305)

[3.2.5.93.1.31 MeetingUser 403](#_Toc491432306)

[3.2.5.93.1.32 Decision 403](#_Toc491432307)

[3.2.5.93.1.33 MeetingObjective 403](#_Toc491432308)

[3.2.5.93.1.34 TextBox 403](#_Toc491432309)

[3.2.5.93.1.35 ThingsToBring 403](#_Toc491432310)

[3.2.5.93.1.36 HomePageLibrary 403](#_Toc491432311)

[3.2.5.93.1.37 Posts 403](#_Toc491432312)

[3.2.5.93.1.38 Comments 403](#_Toc491432313)

[3.2.5.93.1.39 Categories 404](#_Toc491432314)

[3.2.5.93.1.40 Facility 404](#_Toc491432315)

[3.2.5.93.1.41 Whereabouts 404](#_Toc491432316)

[3.2.5.93.1.42 CallTrack 404](#_Toc491432317)

[3.2.5.93.1.43 Circulation 404](#_Toc491432318)

[3.2.5.93.1.44 Timecard 404](#_Toc491432319)

[3.2.5.93.1.45 Holidays 404](#_Toc491432320)

[3.2.5.93.1.46 IMEDic 404](#_Toc491432321)

[3.2.5.93.1.47 ExternalList 404](#_Toc491432322)

[3.2.5.93.1.48 IssueTracking 404](#_Toc491432323)

[3.2.5.93.1.49 AdminTasks 405](#_Toc491432324)

[3.2.5.93.1.50 HealthRules 405](#_Toc491432325)

[3.2.5.93.1.51 HealthReports 405](#_Toc491432326)

[3.2.5.93.1.52 InvalidType 405](#_Toc491432327)

[3.2.5.93.1.53 AccessRequest 405](#_Toc491432328)

[3.2.5.93.1.54 DesignCatalog 405](#_Toc491432329)

[3.2.5.93.1.55 MaintenanceLogs 405](#_Toc491432330)

[3.2.5.93.1.56 AppDataCatalog 405](#_Toc491432331)

[3.2.5.93.1.57 TasksWithTimelineAndHierarchy 405](#_Toc491432332)

[3.2.5.93.1.58 MySiteDocumentLibrary 406](#_Toc491432333)

[3.2.5.93.1.59 DeveloperSiteDraftApps 406](#_Toc491432334)

[3.2.5.93.1.60 HelpLibrary 406](#_Toc491432335)

[3.2.5.93.1.61 AccessApp 406](#_Toc491432336)

[3.2.5.93.1.62 SharingLinks 406](#_Toc491432337)

[3.2.5.94 Microsoft.SharePoint.Client.MoveOperations 406](#_Toc491432338)

[3.2.5.94.1 Field Values 406](#_Toc491432339)

[3.2.5.94.1.1 None 406](#_Toc491432340)

[3.2.5.94.1.2 Overwrite 406](#_Toc491432341)

[3.2.5.94.1.3 AllowBrokenThickets 406](#_Toc491432342)

[3.2.5.94.1.4 BypassApprovePermission 407](#_Toc491432343)

[3.2.5.95 Microsoft.SharePoint.Client.Navigation 407](#_Toc491432344)

[3.2.5.95.1 Properties 407](#_Toc491432345)

[3.2.5.95.1.1 Scalar Properties 407](#_Toc491432346)

[3.2.5.95.1.1.1 UseShared 407](#_Toc491432347)

[3.2.5.95.1.2 ObjectPath Properties 407](#_Toc491432348)

[3.2.5.95.1.2.1 QuickLaunch 407](#_Toc491432349)

[3.2.5.95.1.2.2 TopNavigationBar 407](#_Toc491432350)

[3.2.5.95.2 Methods 407](#_Toc491432351)

[3.2.5.95.2.1 Scalar Methods 407](#_Toc491432352)

[3.2.5.95.2.2 ObjectPath Methods 407](#_Toc491432353)

[3.2.5.95.2.2.1 GetNodeById 407](#_Toc491432354)

[3.2.5.96 Microsoft.SharePoint.Client.NavigationNode 408](#_Toc491432355)

[3.2.5.96.1 Properties 408](#_Toc491432356)

[3.2.5.96.1.1 Scalar Properties 408](#_Toc491432357)

[3.2.5.96.1.1.1 Id 408](#_Toc491432358)

[3.2.5.96.1.1.2 Title 408](#_Toc491432359)

[3.2.5.96.1.1.3 Url 408](#_Toc491432360)

[3.2.5.96.1.1.4 IsExternal 408](#_Toc491432361)

[3.2.5.96.1.1.5 IsVisible 409](#_Toc491432362)

[3.2.5.96.1.1.6 IsDocLib 409](#_Toc491432363)

[3.2.5.96.1.2 ObjectPath Properties 409](#_Toc491432364)

[3.2.5.96.1.2.1 Children 409](#_Toc491432365)

[3.2.5.96.2 Methods 409](#_Toc491432366)

[3.2.5.96.2.1 Scalar Methods 409](#_Toc491432367)

[3.2.5.96.2.1.1 DeleteObject 409](#_Toc491432368)

[3.2.5.96.2.1.2 Update 409](#_Toc491432369)

[3.2.5.96.2.2 ObjectPath Methods 409](#_Toc491432370)

[3.2.5.97 Microsoft.SharePoint.Client.NavigationNodeCollection 410](#_Toc491432371)

[3.2.5.97.1 Properties 410](#_Toc491432372)

[3.2.5.97.1.1 Scalar Properties 410](#_Toc491432373)

[3.2.5.97.1.2 ObjectPath Properties 410](#_Toc491432374)

[3.2.5.97.2 Methods 410](#_Toc491432375)

[3.2.5.97.2.1 Scalar Methods 410](#_Toc491432376)

[3.2.5.97.2.1.1 MoveAfter 410](#_Toc491432377)

[3.2.5.97.2.2 ObjectPath Methods 410](#_Toc491432378)

[3.2.5.97.2.2.1 Add 410](#_Toc491432379)

[3.2.5.97.2.2.2 GetById 410](#_Toc491432380)

[3.2.5.97.2.2.3 GetByIndex 411](#_Toc491432381)

[3.2.5.98 Microsoft.SharePoint.Client.NavigationNodeCreationInformation 411](#_Toc491432382)

[3.2.5.98.1 Properties 411](#_Toc491432383)

[3.2.5.98.1.1 Scalar Properties 411](#_Toc491432384)

[3.2.5.98.1.1.1 AsLastNode 411](#_Toc491432385)

[3.2.5.98.1.1.2 IsExternal 411](#_Toc491432386)

[3.2.5.98.1.1.3 Title 411](#_Toc491432387)

[3.2.5.98.1.1.4 Url 412](#_Toc491432388)

[3.2.5.98.1.2 ObjectPath Properties 412](#_Toc491432389)

[3.2.5.98.1.2.1 PreviousNode 412](#_Toc491432390)

[3.2.5.99 Microsoft.SharePoint.Client.PageType 412](#_Toc491432391)

[3.2.5.99.1 Field Values 412](#_Toc491432392)

[3.2.5.99.1.1 Invalid 412](#_Toc491432393)

[3.2.5.99.1.2 DefaultView 412](#_Toc491432394)

[3.2.5.99.1.3 NormalView 412](#_Toc491432395)

[3.2.5.99.1.4 DialogView 412](#_Toc491432396)

[3.2.5.99.1.5 View 412](#_Toc491432397)

[3.2.5.99.1.6 DisplayForm 413](#_Toc491432398)

[3.2.5.99.1.7 DisplayFormDialog 413](#_Toc491432399)

[3.2.5.99.1.8 EditForm 413](#_Toc491432400)

[3.2.5.99.1.9 EditFormDialog 413](#_Toc491432401)

[3.2.5.99.1.10 NewForm 413](#_Toc491432402)

[3.2.5.99.1.11 NewFormDialog 413](#_Toc491432403)

[3.2.5.99.1.12 SolutionForm 413](#_Toc491432404)

[3.2.5.99.1.13 PAGE\_MAXITEMS 413](#_Toc491432405)

[3.2.5.100 Microsoft.SharePoint.Client.Principal 413](#_Toc491432406)

[3.2.5.100.1 Properties 414](#_Toc491432407)

[3.2.5.100.1.1 Scalar Properties 414](#_Toc491432408)

[3.2.5.100.1.1.1 Id 414](#_Toc491432409)

[3.2.5.100.1.1.2 LoginName 414](#_Toc491432410)

[3.2.5.100.1.1.3 PrincipalType 414](#_Toc491432411)

[3.2.5.100.1.1.4 Title 414](#_Toc491432412)

[3.2.5.100.1.1.5 IsHiddenInUI 414](#_Toc491432413)

[3.2.5.100.1.2 ObjectPath Properties 414](#_Toc491432414)

[3.2.5.100.2 Methods 414](#_Toc491432415)

[3.2.5.100.2.1 Scalar Methods 414](#_Toc491432416)

[3.2.5.100.2.2 ObjectPath Methods 415](#_Toc491432417)

[3.2.5.101 Microsoft.SharePoint.Client.PropertyValues 415](#_Toc491432418)

[3.2.5.101.1 Properties 415](#_Toc491432419)

[3.2.5.101.1.1 Scalar Properties 415](#_Toc491432420)

[3.2.5.101.1.2 ObjectPath Properties 415](#_Toc491432421)

[3.2.5.101.2 Methods 415](#_Toc491432422)

[3.2.5.101.2.1 Scalar Methods 415](#_Toc491432423)

[3.2.5.101.2.1.1 SetFieldValue 415](#_Toc491432424)

[3.2.5.101.2.2 ObjectPath Methods 415](#_Toc491432425)

[3.2.5.102 Microsoft.SharePoint.Client.QuickLaunchOptions 415](#_Toc491432426)

[3.2.5.102.1 Field Values 415](#_Toc491432427)

[3.2.5.102.1.1 Off 415](#_Toc491432428)

[3.2.5.102.1.2 On 416](#_Toc491432429)

[3.2.5.102.1.3 DefaultValue 416](#_Toc491432430)

[3.2.5.103 Microsoft.SharePoint.Client.RecycleBinItem 416](#_Toc491432431)

[3.2.5.103.1 Properties 416](#_Toc491432432)

[3.2.5.103.1.1 Scalar Properties 416](#_Toc491432433)

[3.2.5.103.1.1.1 AuthorEmail 416](#_Toc491432434)

[3.2.5.103.1.1.2 AuthorName 416](#_Toc491432435)

[3.2.5.103.1.1.3 DeletedByEmail 416](#_Toc491432436)

[3.2.5.103.1.1.4 DeletedByName 416](#_Toc491432437)

[3.2.5.103.1.1.5 DeletedDate 417](#_Toc491432438)

[3.2.5.103.1.1.6 DeletedDateLocalFormatted 417](#_Toc491432439)

[3.2.5.103.1.1.7 DirName 417](#_Toc491432440)

[3.2.5.103.1.1.8 Id 417](#_Toc491432441)

[3.2.5.103.1.1.9 ItemState 417](#_Toc491432442)

[3.2.5.103.1.1.10 ItemType 417](#_Toc491432443)

[3.2.5.103.1.1.11 LeafName 418](#_Toc491432444)

[3.2.5.103.1.1.12 Size 418](#_Toc491432445)

[3.2.5.103.1.1.13 Title 418](#_Toc491432446)

[3.2.5.103.1.2 ObjectPath Properties 418](#_Toc491432447)

[3.2.5.103.1.2.1 Author 418](#_Toc491432448)

[3.2.5.103.1.2.2 DeletedBy 418](#_Toc491432449)

[3.2.5.103.2 Methods 418](#_Toc491432450)

[3.2.5.103.2.1 Scalar Methods 418](#_Toc491432451)

[3.2.5.103.2.1.1 DeleteObject 418](#_Toc491432452)

[3.2.5.103.2.1.2 MoveToSecondStage 419](#_Toc491432453)

[3.2.5.103.2.1.3 Restore 419](#_Toc491432454)

[3.2.5.103.2.2 ObjectPath Methods 419](#_Toc491432455)

[3.2.5.104 Microsoft.SharePoint.Client.RecycleBinItemCollection 419](#_Toc491432456)

[3.2.5.104.1 Properties 419](#_Toc491432457)

[3.2.5.104.1.1 Scalar Properties 419](#_Toc491432458)

[3.2.5.104.1.2 ObjectPath Properties 419](#_Toc491432459)

[3.2.5.104.2 Methods 420](#_Toc491432460)

[3.2.5.104.2.1 Scalar Methods 420](#_Toc491432461)

[3.2.5.104.2.1.1 DeleteAll 420](#_Toc491432462)

[3.2.5.104.2.1.2 DeleteAllSecondStageItems 420](#_Toc491432463)

[3.2.5.104.2.1.3 MoveAllToSecondStage 420](#_Toc491432464)

[3.2.5.104.2.1.4 RestoreAll 420](#_Toc491432465)

[3.2.5.104.2.2 ObjectPath Methods 420](#_Toc491432466)

[3.2.5.104.2.2.1 GetById 420](#_Toc491432467)

[3.2.5.105 Microsoft.SharePoint.Client.RecycleBinItemState 421](#_Toc491432468)

[3.2.5.105.1 Field Values 421](#_Toc491432469)

[3.2.5.105.1.1 None 421](#_Toc491432470)

[3.2.5.105.1.2 FirstStageRecycleBin 421](#_Toc491432471)

[3.2.5.105.1.3 SecondStageRecycleBin 421](#_Toc491432472)

[3.2.5.106 Microsoft.SharePoint.Client.RecycleBinItemType 421](#_Toc491432473)

[3.2.5.106.1 Field Values 421](#_Toc491432474)

[3.2.5.106.1.1 None 421](#_Toc491432475)

[3.2.5.106.1.2 File 421](#_Toc491432476)

[3.2.5.106.1.3 FileVersion 422](#_Toc491432477)

[3.2.5.106.1.4 ListItem 422](#_Toc491432478)

[3.2.5.106.1.5 List 422](#_Toc491432479)

[3.2.5.106.1.6 Folder 422](#_Toc491432480)

[3.2.5.106.1.7 FolderWithLists 422](#_Toc491432481)

[3.2.5.106.1.8 Attachment 422](#_Toc491432482)

[3.2.5.106.1.9 ListItemVersion 422](#_Toc491432483)

[3.2.5.106.1.10 CascadeParent 422](#_Toc491432484)

[3.2.5.106.1.11 Web 422](#_Toc491432485)

[3.2.5.106.1.12 App 422](#_Toc491432486)

[3.2.5.107 Microsoft.SharePoint.Client.RelatedField 423](#_Toc491432487)

[3.2.5.107.1 Properties 423](#_Toc491432488)

[3.2.5.107.1.1 Scalar Properties 423](#_Toc491432489)

[3.2.5.107.1.1.1 FieldId 423](#_Toc491432490)

[3.2.5.107.1.1.2 ListId 423](#_Toc491432491)

[3.2.5.107.1.1.3 RelationshipDeleteBehavior 423](#_Toc491432492)

[3.2.5.107.1.1.4 WebId 423](#_Toc491432493)

[3.2.5.107.1.2 ObjectPath Properties 423](#_Toc491432494)

[3.2.5.107.1.2.1 LookupList 423](#_Toc491432495)

[3.2.5.107.2 Methods 423](#_Toc491432496)

[3.2.5.107.2.1 Scalar Methods 423](#_Toc491432497)

[3.2.5.107.2.2 ObjectPath Methods 424](#_Toc491432498)

[3.2.5.108 Microsoft.SharePoint.Client.RelatedFieldCollection 424](#_Toc491432499)

[3.2.5.108.1 Properties 424](#_Toc491432500)

[3.2.5.108.1.1 Scalar Properties 424](#_Toc491432501)

[3.2.5.108.1.2 ObjectPath Properties 424](#_Toc491432502)

[3.2.5.108.2 Methods 424](#_Toc491432503)

[3.2.5.108.2.1 Scalar Methods 424](#_Toc491432504)

[3.2.5.108.2.2 ObjectPath Methods 424](#_Toc491432505)

[3.2.5.108.2.2.1 GetByFieldId 424](#_Toc491432506)

[3.2.5.109 Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType 424](#_Toc491432507)

[3.2.5.109.1 Field Values 424](#_Toc491432508)

[3.2.5.109.1.1 None 424](#_Toc491432509)

[3.2.5.109.1.2 Cascade 425](#_Toc491432510)

[3.2.5.109.1.3 Restrict 425](#_Toc491432511)

[3.2.5.110 Microsoft.SharePoint.Client.RequestContext 425](#_Toc491432512)

[3.2.5.110.1 Properties 425](#_Toc491432513)

[3.2.5.110.1.1 Scalar Properties 425](#_Toc491432514)

[3.2.5.110.1.2 ObjectPath Properties 425](#_Toc491432515)

[3.2.5.110.1.2.1 Current 425](#_Toc491432516)

[3.2.5.110.1.2.2 List 425](#_Toc491432517)

[3.2.5.110.1.2.3 Site 425](#_Toc491432518)

[3.2.5.110.1.2.4 Web 426](#_Toc491432519)

[3.2.5.110.2 Methods 426](#_Toc491432520)

[3.2.5.110.2.1 Scalar Methods 426](#_Toc491432521)

[3.2.5.110.2.2 ObjectPath Methods 426](#_Toc491432522)

[3.2.5.110.2.2.1 GetRemoteContext 426](#_Toc491432523)

[3.2.5.111 Microsoft.SharePoint.Client.RoleAssignment 426](#_Toc491432524)

[3.2.5.111.1 Properties 426](#_Toc491432525)

[3.2.5.111.1.1 Scalar Properties 426](#_Toc491432526)

[3.2.5.111.1.1.1 PrincipalId 426](#_Toc491432527)

[3.2.5.111.1.2 ObjectPath Properties 426](#_Toc491432528)

[3.2.5.111.1.2.1 Member 426](#_Toc491432529)

[3.2.5.111.1.2.2 RoleDefinitionBindings 427](#_Toc491432530)

[3.2.5.111.2 Methods 427](#_Toc491432531)

[3.2.5.111.2.1 Scalar Methods 427](#_Toc491432532)

[3.2.5.111.2.1.1 DeleteObject 427](#_Toc491432533)

[3.2.5.111.2.1.2 ImportRoleDefinitionBindings 427](#_Toc491432534)

[3.2.5.111.2.1.3 Update 427](#_Toc491432535)

[3.2.5.111.2.2 ObjectPath Methods 427](#_Toc491432536)

[3.2.5.112 Microsoft.SharePoint.Client.RoleAssignmentCollection 427](#_Toc491432537)

[3.2.5.112.1 Properties 427](#_Toc491432538)

[3.2.5.112.1.1 Scalar Properties 428](#_Toc491432539)

[3.2.5.112.1.2 ObjectPath Properties 428](#_Toc491432540)

[3.2.5.112.1.2.1 Groups 428](#_Toc491432541)

[3.2.5.112.2 Methods 428](#_Toc491432542)

[3.2.5.112.2.1 Scalar Methods 428](#_Toc491432543)

[3.2.5.112.2.1.1 AddRoleAssignment 428](#_Toc491432544)

[3.2.5.112.2.1.2 RemoveRoleAssignment 428](#_Toc491432545)

[3.2.5.112.2.2 ObjectPath Methods 428](#_Toc491432546)

[3.2.5.112.2.2.1 Add 428](#_Toc491432547)

[3.2.5.112.2.2.2 GetByPrincipal 429](#_Toc491432548)

[3.2.5.112.2.2.3 GetByPrincipalId 429](#_Toc491432549)

[3.2.5.113 Microsoft.SharePoint.Client.RoleDefinition 429](#_Toc491432550)

[3.2.5.113.1 Properties 429](#_Toc491432551)

[3.2.5.113.1.1 Scalar Properties 429](#_Toc491432552)

[3.2.5.113.1.1.1 BasePermissions 429](#_Toc491432553)

[3.2.5.113.1.1.2 Description 430](#_Toc491432554)

[3.2.5.113.1.1.3 Hidden 430](#_Toc491432555)

[3.2.5.113.1.1.4 Id 430](#_Toc491432556)

[3.2.5.113.1.1.5 Name 430](#_Toc491432557)

[3.2.5.113.1.1.6 Order 431](#_Toc491432558)

[3.2.5.113.1.1.7 RoleTypeKind 431](#_Toc491432559)

[3.2.5.113.1.2 ObjectPath Properties 431](#_Toc491432560)

[3.2.5.113.2 Methods 431](#_Toc491432561)

[3.2.5.113.2.1 Scalar Methods 431](#_Toc491432562)

[3.2.5.113.2.1.1 DeleteObject 431](#_Toc491432563)

[3.2.5.113.2.1.2 Update 432](#_Toc491432564)

[3.2.5.113.2.2 ObjectPath Methods 432](#_Toc491432565)

[3.2.5.114 Microsoft.SharePoint.Client.RoleDefinitionBindingCollection 432](#_Toc491432566)

[3.2.5.114.1 Properties 432](#_Toc491432567)

[3.2.5.114.1.1 Scalar Properties 432](#_Toc491432568)

[3.2.5.114.1.2 ObjectPath Properties 432](#_Toc491432569)

[3.2.5.114.2 Methods 432](#_Toc491432570)

[3.2.5.114.2.1 Scalar Methods 432](#_Toc491432571)

[3.2.5.114.2.1.1 Add 432](#_Toc491432572)

[3.2.5.114.2.1.2 Remove 433](#_Toc491432573)

[3.2.5.114.2.1.3 RemoveAll 433](#_Toc491432574)

[3.2.5.114.2.2 ObjectPath Methods 433](#_Toc491432575)

[3.2.5.114.2.2.1 GetById 433](#_Toc491432576)

[3.2.5.114.2.2.2 CSOM Constructor 433](#_Toc491432577)

[3.2.5.115 Microsoft.SharePoint.Client.RoleDefinitionCollection 433](#_Toc491432578)

[3.2.5.115.1 Properties 434](#_Toc491432579)

[3.2.5.115.1.1 Scalar Properties 434](#_Toc491432580)

[3.2.5.115.1.2 ObjectPath Properties 434](#_Toc491432581)

[3.2.5.115.2 Methods 434](#_Toc491432582)

[3.2.5.115.2.1 Scalar Methods 434](#_Toc491432583)

[3.2.5.115.2.1.1 RecreateMissingDefaultRoleDefinitions 434](#_Toc491432584)

[3.2.5.115.2.2 ObjectPath Methods 434](#_Toc491432585)

[3.2.5.115.2.2.1 Add 434](#_Toc491432586)

[3.2.5.115.2.2.2 GetById 434](#_Toc491432587)

[3.2.5.115.2.2.3 GetByName 435](#_Toc491432588)

[3.2.5.115.2.2.4 GetByType 435](#_Toc491432589)

[3.2.5.116 Microsoft.SharePoint.Client.RoleDefinitionCreationInformation 435](#_Toc491432590)

[3.2.5.116.1 Properties 435](#_Toc491432591)

[3.2.5.116.1.1 Scalar Properties 435](#_Toc491432592)

[3.2.5.116.1.1.1 BasePermissions 435](#_Toc491432593)

[3.2.5.116.1.1.2 Description 435](#_Toc491432594)

[3.2.5.116.1.1.3 Name 436](#_Toc491432595)

[3.2.5.116.1.1.4 Order 436](#_Toc491432596)

[3.2.5.116.1.2 ObjectPath Properties 436](#_Toc491432597)

[3.2.5.117 Microsoft.SharePoint.Client.RoleType 436](#_Toc491432598)

[3.2.5.117.1 Field Values 436](#_Toc491432599)

[3.2.5.117.1.1 None 436](#_Toc491432600)

[3.2.5.117.1.2 Guest 436](#_Toc491432601)

[3.2.5.117.1.3 Reader 436](#_Toc491432602)

[3.2.5.117.1.4 Contributor 437](#_Toc491432603)

[3.2.5.117.1.5 WebDesigner 437](#_Toc491432604)

[3.2.5.117.1.6 Administrator 437](#_Toc491432605)

[3.2.5.117.1.7 Editor 437](#_Toc491432606)

[3.2.5.118 Microsoft.SharePoint.Client.SecurableObject 437](#_Toc491432607)

[3.2.5.118.1 Properties 437](#_Toc491432608)

[3.2.5.118.1.1 Scalar Properties 438](#_Toc491432609)

[3.2.5.118.1.1.1 HasUniqueRoleAssignments 438](#_Toc491432610)

[3.2.5.118.1.2 ObjectPath Properties 438](#_Toc491432611)

[3.2.5.118.1.2.1 RoleAssignments 438](#_Toc491432612)

[3.2.5.118.1.2.2 FirstUniqueAncestorSecurableObject 438](#_Toc491432613)

[3.2.5.118.2 Methods 438](#_Toc491432614)

[3.2.5.118.2.1 Scalar Methods 438](#_Toc491432615)

[3.2.5.118.2.1.1 BreakRoleInheritance 438](#_Toc491432616)

[3.2.5.118.2.1.2 ResetRoleInheritance 439](#_Toc491432617)

[3.2.5.118.2.2 ObjectPath Methods 439](#_Toc491432618)

[3.2.5.119 Microsoft.SharePoint.Client.Site 439](#_Toc491432619)

[3.2.5.119.1 Properties 439](#_Toc491432620)

[3.2.5.119.1.1 Scalar Properties 439](#_Toc491432621)

[3.2.5.119.1.1.1 AllowDesigner 439](#_Toc491432622)

[3.2.5.119.1.1.2 AllowMasterPageEditing 440](#_Toc491432623)

[3.2.5.119.1.1.3 AllowRevertFromTemplate 440](#_Toc491432624)

[3.2.5.119.1.1.4 Id 440](#_Toc491432625)

[3.2.5.119.1.1.5 MaxItemsPerThrottledOperation 440](#_Toc491432626)

[3.2.5.119.1.1.6 ServerRelativeUrl 440](#_Toc491432627)

[3.2.5.119.1.1.7 ShowUrlStructure 440](#_Toc491432628)

[3.2.5.119.1.1.8 UIVersionConfigurationEnabled 441](#_Toc491432629)

[3.2.5.119.1.1.9 Url 441](#_Toc491432630)

[3.2.5.119.1.1.10 Usage 441](#_Toc491432631)

[3.2.5.119.1.1.11 CompatibilityLevel 441](#_Toc491432632)

[3.2.5.119.1.1.12 LockIssue 441](#_Toc491432633)

[3.2.5.119.1.1.13 ReadOnly 441](#_Toc491432634)

[3.2.5.119.1.1.14 CanUpgrade 441](#_Toc491432635)

[3.2.5.119.1.1.15 AllowSelfServiceUpgrade 442](#_Toc491432636)

[3.2.5.119.1.1.16 AllowSelfServiceUpgradeEvaluation 442](#_Toc491432637)

[3.2.5.119.1.1.17 PrimaryUri 442](#_Toc491432638)

[3.2.5.119.1.1.18 UpgradeReminderDate 442](#_Toc491432639)

[3.2.5.119.1.1.19 UpgradeInfo 442](#_Toc491432640)

[3.2.5.119.1.1.20 Upgrading 442](#_Toc491432641)

[3.2.5.119.1.1.21 ShareByLinkEnabled 442](#_Toc491432642)

[3.2.5.119.1.1.22 AllowCreateDeclarativeWorkflow 443](#_Toc491432643)

[3.2.5.119.1.1.23 AllowSaveDeclarativeWorkflowAsTemplate 443](#_Toc491432644)

[3.2.5.119.1.1.24 AllowSavePublishDeclarativeWorkflow 443](#_Toc491432645)

[3.2.5.119.1.1.25 RequiredDesignerVersion 443](#_Toc491432646)

[3.2.5.119.1.1.26 AuditLogTrimmingRetention 443](#_Toc491432647)

[3.2.5.119.1.1.27 CurrentChangeToken 443](#_Toc491432648)

[3.2.5.119.1.1.28 ExternalSharingTipsEnabled 444](#_Toc491432649)

[3.2.5.119.1.1.29 NeedsB2BUpgrade 444](#_Toc491432650)

[3.2.5.119.1.1.30 SandboxedCodeActivationCapability 444](#_Toc491432651)

[3.2.5.119.1.1.31 ShareByEmailEnabled 444](#_Toc491432652)

[3.2.5.119.1.1.32 TrimAuditLog 444](#_Toc491432653)

[3.2.5.119.1.1.33 UpgradeScheduled 444](#_Toc491432654)

[3.2.5.119.1.1.34 UpgradeScheduledDate 444](#_Toc491432655)

[3.2.5.119.1.1.35 DisableCompanyWideSharingLinks 445](#_Toc491432656)

[3.2.5.119.1.2 ObjectPath Properties 445](#_Toc491432657)

[3.2.5.119.1.2.1 Features 445](#_Toc491432658)

[3.2.5.119.1.2.2 RecycleBin 445](#_Toc491432659)

[3.2.5.119.1.2.3 RootWeb 445](#_Toc491432660)

[3.2.5.119.1.2.4 UserCustomActions 445](#_Toc491432661)

[3.2.5.119.1.2.5 Owner 445](#_Toc491432662)

[3.2.5.119.1.2.6 EventReceivers 445](#_Toc491432663)

[3.2.5.119.1.2.7 Audit 446](#_Toc491432664)

[3.2.5.119.1.2.8 SecondaryContact 446](#_Toc491432665)

[3.2.5.119.2 Methods 446](#_Toc491432666)

[3.2.5.119.2.1 Scalar Methods 446](#_Toc491432667)

[3.2.5.119.2.1.1 CreateMigrationJob 446](#_Toc491432668)

[3.2.5.119.2.1.2 CreatePreviewSPSite 447](#_Toc491432669)

[3.2.5.119.2.1.3 DeleteMigrationJob 447](#_Toc491432670)

[3.2.5.119.2.1.4 ExtendUpgradeReminderDate 447](#_Toc491432671)

[3.2.5.119.2.1.5 GetMigrationJobStatus 447](#_Toc491432672)

[3.2.5.119.2.1.6 Invalidate 448](#_Toc491432673)

[3.2.5.119.2.1.7 NeedsUpgradeByType 448](#_Toc491432674)

[3.2.5.119.2.1.8 RunUpgradeSiteSession 448](#_Toc491432675)

[3.2.5.119.2.1.9 UpdateClientObjectModelUseRemoteAPIsPermissionSetting 449](#_Toc491432676)

[3.2.5.119.2.2 ObjectPath Methods 449](#_Toc491432677)

[3.2.5.119.2.2.1 GetCatalog 449](#_Toc491432678)

[3.2.5.119.2.2.2 GetChanges 449](#_Toc491432679)

[3.2.5.119.2.2.3 GetCustomListTemplates 449](#_Toc491432680)

[3.2.5.119.2.2.4 OpenWeb 450](#_Toc491432681)

[3.2.5.119.2.2.5 OpenWebById 450](#_Toc491432682)

[3.2.5.119.2.2.6 GetWebTemplates 450](#_Toc491432683)

[3.2.5.119.2.2.7 RunHealthCheck 450](#_Toc491432684)

[3.2.5.119.2.2.8 GetMigrationStatus 451](#_Toc491432685)

[3.2.5.119.2.2.9 GetRecycleBinItems 451](#_Toc491432686)

[3.2.5.120 Microsoft.SharePoint.Client.SubwebQuery 452](#_Toc491432687)

[3.2.5.120.1 Properties 452](#_Toc491432688)

[3.2.5.120.1.1 Scalar Properties 452](#_Toc491432689)

[3.2.5.120.1.1.1 ConfigurationFilter 452](#_Toc491432690)

[3.2.5.120.1.1.2 WebTemplateFilter 452](#_Toc491432691)

[3.2.5.120.1.2 ObjectPath Properties 452](#_Toc491432692)

[3.2.5.121 Microsoft.SharePoint.Client.TemplateFileType 452](#_Toc491432693)

[3.2.5.121.1 Field Values 453](#_Toc491432694)

[3.2.5.121.1.1 StandardPage 453](#_Toc491432695)

[3.2.5.121.1.2 WikiPage 453](#_Toc491432696)

[3.2.5.121.1.3 FormPage 453](#_Toc491432697)

[3.2.5.122 Microsoft.SharePoint.Client.UrlFieldFormatType 453](#_Toc491432698)

[3.2.5.122.1 Field Values 453](#_Toc491432699)

[3.2.5.122.1.1 Hyperlink 453](#_Toc491432700)

[3.2.5.122.1.2 Image 453](#_Toc491432701)

[3.2.5.123 Microsoft.SharePoint.Client.UsageInfo 453](#_Toc491432702)

[3.2.5.123.1 Properties 453](#_Toc491432703)

[3.2.5.123.1.1 Scalar Properties 453](#_Toc491432704)

[3.2.5.123.1.1.1 Bandwidth 453](#_Toc491432705)

[3.2.5.123.1.1.2 DiscussionStorage 454](#_Toc491432706)

[3.2.5.123.1.1.3 Hits 454](#_Toc491432707)

[3.2.5.123.1.1.4 Storage 454](#_Toc491432708)

[3.2.5.123.1.1.5 StoragePercentageUsed 454](#_Toc491432709)

[3.2.5.123.1.1.6 Visits 454](#_Toc491432710)

[3.2.5.123.1.2 ObjectPath Properties 455](#_Toc491432711)

[3.2.5.124 Microsoft.SharePoint.Client.User 455](#_Toc491432712)

[3.2.5.124.1 Properties 455](#_Toc491432713)

[3.2.5.124.1.1 Scalar Properties 455](#_Toc491432714)

[3.2.5.124.1.1.1 Email 455](#_Toc491432715)

[3.2.5.124.1.1.2 Id 455](#_Toc491432716)

[3.2.5.124.1.1.3 LoginName 456](#_Toc491432717)

[3.2.5.124.1.1.4 PrincipalType 456](#_Toc491432718)

[3.2.5.124.1.1.5 Title 456](#_Toc491432719)

[3.2.5.124.1.1.6 IsSiteAdmin 457](#_Toc491432720)

[3.2.5.124.1.1.7 IsHiddenInUI 457](#_Toc491432721)

[3.2.5.124.1.1.8 UserId 457](#_Toc491432722)

[3.2.5.124.1.1.9 IsShareByEmailGuestUser 457](#_Toc491432723)

[3.2.5.124.1.2 ObjectPath Properties 457](#_Toc491432724)

[3.2.5.124.1.2.1 Groups 457](#_Toc491432725)

[3.2.5.124.2 Methods 457](#_Toc491432726)

[3.2.5.124.2.1 Scalar Methods 457](#_Toc491432727)

[3.2.5.124.2.1.1 Update 457](#_Toc491432728)

[3.2.5.124.2.2 ObjectPath Methods 458](#_Toc491432729)

[3.2.5.125 Microsoft.SharePoint.Client.UserCollection 458](#_Toc491432730)

[3.2.5.125.1 Properties 458](#_Toc491432731)

[3.2.5.125.1.1 Scalar Properties 458](#_Toc491432732)

[3.2.5.125.1.2 ObjectPath Properties 458](#_Toc491432733)

[3.2.5.125.2 Methods 458](#_Toc491432734)

[3.2.5.125.2.1 Scalar Methods 458](#_Toc491432735)

[3.2.5.125.2.1.1 Remove 458](#_Toc491432736)

[3.2.5.125.2.1.2 RemoveById 458](#_Toc491432737)

[3.2.5.125.2.1.3 RemoveByLoginName 458](#_Toc491432738)

[3.2.5.125.2.2 ObjectPath Methods 459](#_Toc491432739)

[3.2.5.125.2.2.1 Add 459](#_Toc491432740)

[3.2.5.125.2.2.2 AddUser 459](#_Toc491432741)

[3.2.5.125.2.2.3 GetByEmail 459](#_Toc491432742)

[3.2.5.125.2.2.4 GetById 460](#_Toc491432743)

[3.2.5.125.2.2.5 GetByLoginName 460](#_Toc491432744)

[3.2.5.126 Microsoft.SharePoint.Client.UserCreationInformation 460](#_Toc491432745)

[3.2.5.126.1 Properties 460](#_Toc491432746)

[3.2.5.126.1.1 Scalar Properties 460](#_Toc491432747)

[3.2.5.126.1.1.1 Email 460](#_Toc491432748)

[3.2.5.126.1.1.2 LoginName 461](#_Toc491432749)

[3.2.5.126.1.1.3 Title 461](#_Toc491432750)

[3.2.5.126.1.2 ObjectPath Properties 461](#_Toc491432751)

[3.2.5.127 Microsoft.SharePoint.Client.UserCustomAction 461](#_Toc491432752)

[3.2.5.127.1 Properties 461](#_Toc491432753)

[3.2.5.127.1.1 Scalar Properties 461](#_Toc491432754)

[3.2.5.127.1.1.1 CommandUIExtension 461](#_Toc491432755)

[3.2.5.127.1.1.2 Description 461](#_Toc491432756)

[3.2.5.127.1.1.3 Group 461](#_Toc491432757)

[3.2.5.127.1.1.4 Id 462](#_Toc491432758)

[3.2.5.127.1.1.5 ImageUrl 462](#_Toc491432759)

[3.2.5.127.1.1.6 Location 462](#_Toc491432760)

[3.2.5.127.1.1.7 Name 462](#_Toc491432761)

[3.2.5.127.1.1.8 RegistrationId 462](#_Toc491432762)

[3.2.5.127.1.1.9 RegistrationType 462](#_Toc491432763)

[3.2.5.127.1.1.10 Rights 463](#_Toc491432764)

[3.2.5.127.1.1.11 Scope 463](#_Toc491432765)

[3.2.5.127.1.1.12 ScriptBlock 463](#_Toc491432766)

[3.2.5.127.1.1.13 ScriptSrc 463](#_Toc491432767)

[3.2.5.127.1.1.14 Sequence 463](#_Toc491432768)

[3.2.5.127.1.1.15 Title 463](#_Toc491432769)

[3.2.5.127.1.1.16 Url 464](#_Toc491432770)

[3.2.5.127.1.1.17 VersionOfUserCustomAction 464](#_Toc491432771)

[3.2.5.127.1.2 ObjectPath Properties 464](#_Toc491432772)

[3.2.5.127.2 Methods 464](#_Toc491432773)

[3.2.5.127.2.1 Scalar Methods 464](#_Toc491432774)

[3.2.5.127.2.1.1 DeleteObject 464](#_Toc491432775)

[3.2.5.127.2.1.2 Update 464](#_Toc491432776)

[3.2.5.127.2.2 ObjectPath Methods 465](#_Toc491432777)

[3.2.5.128 Microsoft.SharePoint.Client.UserCustomActionCollection 465](#_Toc491432778)

[3.2.5.128.1 Properties 465](#_Toc491432779)

[3.2.5.128.1.1 Scalar Properties 465](#_Toc491432780)

[3.2.5.128.1.2 ObjectPath Properties 465](#_Toc491432781)

[3.2.5.128.2 Methods 465](#_Toc491432782)

[3.2.5.128.2.1 Scalar Methods 465](#_Toc491432783)

[3.2.5.128.2.1.1 Clear 465](#_Toc491432784)

[3.2.5.128.2.2 ObjectPath Methods 465](#_Toc491432785)

[3.2.5.128.2.2.1 Add 465](#_Toc491432786)

[3.2.5.128.2.2.2 GetById 466](#_Toc491432787)

[3.2.5.129 Microsoft.SharePoint.Client.UserCustomActionRegistrationType 466](#_Toc491432788)

[3.2.5.129.1 Field Values 466](#_Toc491432789)

[3.2.5.129.1.1 None 466](#_Toc491432790)

[3.2.5.129.1.2 List 466](#_Toc491432791)

[3.2.5.129.1.3 ContentType 466](#_Toc491432792)

[3.2.5.129.1.4 ProgId 466](#_Toc491432793)

[3.2.5.129.1.5 FileType 466](#_Toc491432794)

[3.2.5.130 Microsoft.SharePoint.Client.UserCustomActionScope 467](#_Toc491432795)

[3.2.5.130.1 Field Values 467](#_Toc491432796)

[3.2.5.130.1.1 Unknown 467](#_Toc491432797)

[3.2.5.130.1.2 Site 467](#_Toc491432798)

[3.2.5.130.1.3 Web 467](#_Toc491432799)

[3.2.5.130.1.4 List 467](#_Toc491432800)

[3.2.5.131 Microsoft.SharePoint.Client.Utilities.DateTimeFormat 467](#_Toc491432801)

[3.2.5.131.1 Field Values 467](#_Toc491432802)

[3.2.5.131.1.1 DateTime 467](#_Toc491432803)

[3.2.5.131.1.2 DateOnly 467](#_Toc491432804)

[3.2.5.131.1.3 TimeOnly 467](#_Toc491432805)

[3.2.5.131.1.4 ISO8601 468](#_Toc491432806)

[3.2.5.131.1.5 MonthDayOnly 468](#_Toc491432807)

[3.2.5.131.1.6 MonthYearOnly 468](#_Toc491432808)

[3.2.5.131.1.7 LongDate 468](#_Toc491432809)

[3.2.5.131.1.8 UnknownFormat 468](#_Toc491432810)

[3.2.5.132 Microsoft.SharePoint.Client.Utilities.IconSize 468](#_Toc491432811)

[3.2.5.132.1 Field Values 468](#_Toc491432812)

[3.2.5.132.1.1 Size16 468](#_Toc491432813)

[3.2.5.132.1.2 Size32 468](#_Toc491432814)

[3.2.5.132.1.3 Size256 468](#_Toc491432815)

[3.2.5.133 Microsoft.SharePoint.Client.Utilities.PrincipalInfo 469](#_Toc491432816)

[3.2.5.133.1 Properties 469](#_Toc491432817)

[3.2.5.133.1.1 Scalar Properties 469](#_Toc491432818)

[3.2.5.133.1.1.1 Department 469](#_Toc491432819)

[3.2.5.133.1.1.2 DisplayName 469](#_Toc491432820)

[3.2.5.133.1.1.3 Email 469](#_Toc491432821)

[3.2.5.133.1.1.4 JobTitle 469](#_Toc491432822)

[3.2.5.133.1.1.5 LoginName 469](#_Toc491432823)

[3.2.5.133.1.1.6 Mobile 469](#_Toc491432824)

[3.2.5.133.1.1.7 PrincipalId 470](#_Toc491432825)

[3.2.5.133.1.1.8 PrincipalType 470](#_Toc491432826)

[3.2.5.133.1.1.9 SIPAddress 470](#_Toc491432827)

[3.2.5.133.1.2 ObjectPath Properties 470](#_Toc491432828)

[3.2.5.134 Microsoft.SharePoint.Client.Utilities.PrincipalSource 470](#_Toc491432829)

[3.2.5.134.1 Field Values 470](#_Toc491432830)

[3.2.5.134.1.1 None 470](#_Toc491432831)

[3.2.5.134.1.2 UserInfoList 470](#_Toc491432832)

[3.2.5.134.1.3 Windows 470](#_Toc491432833)

[3.2.5.134.1.4 MembershipProvider 471](#_Toc491432834)

[3.2.5.134.1.5 RoleProvider 471](#_Toc491432835)

[3.2.5.134.1.6 All 471](#_Toc491432836)

[3.2.5.135 Microsoft.SharePoint.Client.Utilities.PrincipalType 471](#_Toc491432837)

[3.2.5.135.1 Field Values 471](#_Toc491432838)

[3.2.5.135.1.1 None 471](#_Toc491432839)

[3.2.5.135.1.2 User 471](#_Toc491432840)

[3.2.5.135.1.3 DistributionList 471](#_Toc491432841)

[3.2.5.135.1.4 SecurityGroup 471](#_Toc491432842)

[3.2.5.135.1.5 SharePointGroup 471](#_Toc491432843)

[3.2.5.135.1.6 All 472](#_Toc491432844)

[3.2.5.136 Microsoft.SharePoint.Client.Utilities.Utility 472](#_Toc491432845)

[3.2.5.136.1 Properties 472](#_Toc491432846)

[3.2.5.136.1.1 Scalar Properties 472](#_Toc491432847)

[3.2.5.136.1.2 ObjectPath Properties 472](#_Toc491432848)

[3.2.5.136.2 Methods 472](#_Toc491432849)

[3.2.5.136.2.1 Scalar Methods 472](#_Toc491432850)

[3.2.5.136.2.1.1 CreateEmailBodyForInvitation 472](#_Toc491432851)

[3.2.5.136.2.1.2 FormatDateTime 472](#_Toc491432852)

[3.2.5.136.2.1.3 GetCurrentUserEmailAddresses 473](#_Toc491432853)

[3.2.5.136.2.1.4 ResolvePrincipal 473](#_Toc491432854)

[3.2.5.136.2.1.5 SearchPrincipals 474](#_Toc491432855)

[3.2.5.136.2.1.6 GetPeoplePickerURL 474](#_Toc491432856)

[3.2.5.136.2.1.7 ResolvePrincipalInCurrentContext 475](#_Toc491432857)

[3.2.5.136.2.1.8 MarkDiscussionAsFeatured 476](#_Toc491432858)

[3.2.5.136.2.1.9 UnmarkDiscussionAsFeatured 476](#_Toc491432859)

[3.2.5.136.2.1.10 SendEmail 477](#_Toc491432860)

[3.2.5.136.2.1.11 LogCustomAppError 477](#_Toc491432861)

[3.2.5.136.2.1.12 GetAppLicenseInformation 478](#_Toc491432862)

[3.2.5.136.2.1.13 IsUserLicensedForEntityInContext 478](#_Toc491432863)

[3.2.5.136.2.1.14 GetAppLicenseDeploymentId 478](#_Toc491432864)

[3.2.5.136.2.1.15 ImportAppLicense 478](#_Toc491432865)

[3.2.5.136.2.1.16 SearchPrincipalsUsingContextWeb 479](#_Toc491432866)

[3.2.5.136.2.1.17 GetLocalizedString 480](#_Toc491432867)

[3.2.5.136.2.1.18 GetLowerCaseString 480](#_Toc491432868)

[3.2.5.136.2.1.19 LogCustomRemoteAppError 481](#_Toc491432869)

[3.2.5.136.2.1.20 ExpandGroupsToPrincipals 481](#_Toc491432870)

[3.2.5.136.2.1.21 GetUserPermissionLevels 482](#_Toc491432871)

[3.2.5.136.2.1.22 IsEmailServerSet 482](#_Toc491432872)

[3.2.5.136.2.2 ObjectPath Methods 482](#_Toc491432873)

[3.2.5.136.2.2.1 CreateNewDiscussion 482](#_Toc491432874)

[3.2.5.136.2.2.2 CreateNewDiscussionReply 482](#_Toc491432875)

[3.2.5.136.2.2.3 CreateNewDiscussionItem 483](#_Toc491432876)

[3.2.5.136.2.2.4 CreateWikiPageInContextWeb 483](#_Toc491432877)

[3.2.5.136.2.2.5 LocalizeWebPartGallery 483](#_Toc491432878)

[3.2.5.137 Microsoft.SharePoint.Client.View 483](#_Toc491432879)

[3.2.5.137.1 Properties 484](#_Toc491432880)

[3.2.5.137.1.1 Scalar Properties 484](#_Toc491432881)

[3.2.5.137.1.1.1 Aggregations 484](#_Toc491432882)

[3.2.5.137.1.1.2 AggregationsStatus 484](#_Toc491432883)

[3.2.5.137.1.1.3 BaseViewId 484](#_Toc491432884)

[3.2.5.137.1.1.4 ContentTypeId 484](#_Toc491432885)

[3.2.5.137.1.1.5 DefaultView 484](#_Toc491432886)

[3.2.5.137.1.1.6 DefaultViewForContentType 484](#_Toc491432887)

[3.2.5.137.1.1.7 EditorModified 485](#_Toc491432888)

[3.2.5.137.1.1.8 Formats 485](#_Toc491432889)

[3.2.5.137.1.1.9 Hidden 485](#_Toc491432890)

[3.2.5.137.1.1.10 HtmlSchemaXml 485](#_Toc491432891)

[3.2.5.137.1.1.11 Id 485](#_Toc491432892)

[3.2.5.137.1.1.12 ImageUrl 485](#_Toc491432893)

[3.2.5.137.1.1.13 IncludeRootFolder 486](#_Toc491432894)

[3.2.5.137.1.1.14 Method 486](#_Toc491432895)

[3.2.5.137.1.1.15 MobileDefaultView 486](#_Toc491432896)

[3.2.5.137.1.1.16 MobileView 486](#_Toc491432897)

[3.2.5.137.1.1.17 ModerationType 486](#_Toc491432898)

[3.2.5.137.1.1.18 OrderedView 486](#_Toc491432899)

[3.2.5.137.1.1.19 Paged 486](#_Toc491432900)

[3.2.5.137.1.1.20 PersonalView 487](#_Toc491432901)

[3.2.5.137.1.1.21 ReadOnlyView 487](#_Toc491432902)

[3.2.5.137.1.1.22 RequiresClientIntegration 487](#_Toc491432903)

[3.2.5.137.1.1.23 RowLimit 487](#_Toc491432904)

[3.2.5.137.1.1.24 Scope 487](#_Toc491432905)

[3.2.5.137.1.1.25 ServerRelativeUrl 487](#_Toc491432906)

[3.2.5.137.1.1.26 StyleId 487](#_Toc491432907)

[3.2.5.137.1.1.27 Threaded 488](#_Toc491432908)

[3.2.5.137.1.1.28 Title 488](#_Toc491432909)

[3.2.5.137.1.1.29 Toolbar 488](#_Toc491432910)

[3.2.5.137.1.1.30 ToolbarTemplateName 488](#_Toc491432911)

[3.2.5.137.1.1.31 ViewData 488](#_Toc491432912)

[3.2.5.137.1.1.32 ViewJoins 489](#_Toc491432913)

[3.2.5.137.1.1.33 ViewProjectedFields 489](#_Toc491432914)

[3.2.5.137.1.1.34 ViewQuery 489](#_Toc491432915)

[3.2.5.137.1.1.35 ViewType 489](#_Toc491432916)

[3.2.5.137.1.1.36 ListViewXml 489](#_Toc491432917)

[3.2.5.137.1.1.37 JSLink 489](#_Toc491432918)

[3.2.5.137.1.2 ObjectPath Properties 490](#_Toc491432919)

[3.2.5.137.1.2.1 ViewFields 490](#_Toc491432920)

[3.2.5.137.2 Methods 490](#_Toc491432921)

[3.2.5.137.2.1 Scalar Methods 490](#_Toc491432922)

[3.2.5.137.2.1.1 DeleteObject 490](#_Toc491432923)

[3.2.5.137.2.1.2 RenderAsHtml 490](#_Toc491432924)

[3.2.5.137.2.1.3 Update 490](#_Toc491432925)

[3.2.5.137.2.2 ObjectPath Methods 491](#_Toc491432926)

[3.2.5.138 Microsoft.SharePoint.Client.ViewCollection 491](#_Toc491432927)

[3.2.5.138.1 Properties 491](#_Toc491432928)

[3.2.5.138.1.1 Scalar Properties 491](#_Toc491432929)

[3.2.5.138.1.2 ObjectPath Properties 491](#_Toc491432930)

[3.2.5.138.2 Methods 491](#_Toc491432931)

[3.2.5.138.2.1 Scalar Methods 491](#_Toc491432932)

[3.2.5.138.2.2 ObjectPath Methods 491](#_Toc491432933)

[3.2.5.138.2.2.1 Add 491](#_Toc491432934)

[3.2.5.138.2.2.2 GetById 491](#_Toc491432935)

[3.2.5.138.2.2.3 GetByTitle 492](#_Toc491432936)

[3.2.5.139 Microsoft.SharePoint.Client.ViewCreationInformation 492](#_Toc491432937)

[3.2.5.139.1 Properties 492](#_Toc491432938)

[3.2.5.139.1.1 Scalar Properties 492](#_Toc491432939)

[3.2.5.139.1.1.1 Paged 492](#_Toc491432940)

[3.2.5.139.1.1.2 PersonalView 492](#_Toc491432941)

[3.2.5.139.1.1.3 Query 492](#_Toc491432942)

[3.2.5.139.1.1.4 RowLimit 493](#_Toc491432943)

[3.2.5.139.1.1.5 SetAsDefaultView 493](#_Toc491432944)

[3.2.5.139.1.1.6 Title 493](#_Toc491432945)

[3.2.5.139.1.1.7 ViewFields 493](#_Toc491432946)

[3.2.5.139.1.1.8 ViewTypeKind 493](#_Toc491432947)

[3.2.5.139.1.2 ObjectPath Properties 493](#_Toc491432948)

[3.2.5.140 Microsoft.SharePoint.Client.ViewFieldCollection 493](#_Toc491432949)

[3.2.5.140.1 Properties 494](#_Toc491432950)

[3.2.5.140.1.1 Scalar Properties 494](#_Toc491432951)

[3.2.5.140.1.1.1 SchemaXml 494](#_Toc491432952)

[3.2.5.140.1.2 ObjectPath Properties 494](#_Toc491432953)

[3.2.5.140.2 Methods 494](#_Toc491432954)

[3.2.5.140.2.1 Scalar Methods 494](#_Toc491432955)

[3.2.5.140.2.1.1 Add 494](#_Toc491432956)

[3.2.5.140.2.1.2 MoveFieldTo 494](#_Toc491432957)

[3.2.5.140.2.1.3 Remove 495](#_Toc491432958)

[3.2.5.140.2.1.4 RemoveAll 495](#_Toc491432959)

[3.2.5.140.2.1.5 AddViewField 495](#_Toc491432960)

[3.2.5.140.2.1.6 MoveViewFieldTo 495](#_Toc491432961)

[3.2.5.140.2.1.7 RemoveAllViewFields 496](#_Toc491432962)

[3.2.5.140.2.1.8 RemoveViewField 496](#_Toc491432963)

[3.2.5.140.2.2 ObjectPath Methods 496](#_Toc491432964)

[3.2.5.141 Microsoft.SharePoint.Client.ViewScope 496](#_Toc491432965)

[3.2.5.141.1 Field Values 496](#_Toc491432966)

[3.2.5.141.1.1 DefaultValue 496](#_Toc491432967)

[3.2.5.141.1.2 Recursive 496](#_Toc491432968)

[3.2.5.141.1.3 RecursiveAll 497](#_Toc491432969)

[3.2.5.141.1.4 FilesOnly 497](#_Toc491432970)

[3.2.5.142 Microsoft.SharePoint.Client.ViewType 497](#_Toc491432971)

[3.2.5.142.1 Field Values 497](#_Toc491432972)

[3.2.5.142.1.1 None 497](#_Toc491432973)

[3.2.5.142.1.2 Html 497](#_Toc491432974)

[3.2.5.142.1.3 Grid 497](#_Toc491432975)

[3.2.5.142.1.4 Calendar 497](#_Toc491432976)

[3.2.5.142.1.5 Recurrence 497](#_Toc491432977)

[3.2.5.142.1.6 Chart 497](#_Toc491432978)

[3.2.5.142.1.7 Gantt 498](#_Toc491432979)

[3.2.5.143 Microsoft.SharePoint.Client.Web 498](#_Toc491432980)

[3.2.5.143.1 Properties 498](#_Toc491432981)

[3.2.5.143.1.1 Scalar Properties 498](#_Toc491432982)

[3.2.5.143.1.1.1 AllowDesignerForCurrentUser 498](#_Toc491432983)

[3.2.5.143.1.1.2 AllowMasterPageEditingForCurrentUser 498](#_Toc491432984)

[3.2.5.143.1.1.3 AllowRevertFromTemplateForCurrentUser 498](#_Toc491432985)

[3.2.5.143.1.1.4 AllowRssFeeds 498](#_Toc491432986)

[3.2.5.143.1.1.5 Created 499](#_Toc491432987)

[3.2.5.143.1.1.6 Description 499](#_Toc491432988)

[3.2.5.143.1.1.7 EffectiveBasePermissions 499](#_Toc491432989)

[3.2.5.143.1.1.8 HasUniqueRoleAssignments 499](#_Toc491432990)

[3.2.5.143.1.1.9 Id 499](#_Toc491432991)

[3.2.5.143.1.1.10 Language 499](#_Toc491432992)

[3.2.5.143.1.1.11 LastItemModifiedDate 500](#_Toc491432993)

[3.2.5.143.1.1.12 QuickLaunchEnabled 500](#_Toc491432994)

[3.2.5.143.1.1.13 RecycleBinEnabled 500](#_Toc491432995)

[3.2.5.143.1.1.14 ServerRelativeUrl 500](#_Toc491432996)

[3.2.5.143.1.1.15 ShowUrlStructureForCurrentUser 500](#_Toc491432997)

[3.2.5.143.1.1.16 SyndicationEnabled 500](#_Toc491432998)

[3.2.5.143.1.1.17 Title 501](#_Toc491432999)

[3.2.5.143.1.1.18 TreeViewEnabled 501](#_Toc491433000)

[3.2.5.143.1.1.19 UIVersion 501](#_Toc491433001)

[3.2.5.143.1.1.20 UIVersionConfigurationEnabled 501](#_Toc491433002)

[3.2.5.143.1.1.21 EnableMinimalDownload 501](#_Toc491433003)

[3.2.5.143.1.1.22 Url 501](#_Toc491433004)

[3.2.5.143.1.1.23 CustomMasterUrl 502](#_Toc491433005)

[3.2.5.143.1.1.24 MasterUrl 502](#_Toc491433006)

[3.2.5.143.1.1.25 AppInstanceId 502](#_Toc491433007)

[3.2.5.143.1.1.26 DocumentLibraryCalloutOfficeWebAppPreviewersDisabled 502](#_Toc491433008)

[3.2.5.143.1.1.27 Configuration 502](#_Toc491433009)

[3.2.5.143.1.1.28 WebTemplate 502](#_Toc491433010)

[3.2.5.143.1.1.29 SaveSiteAsTemplateEnabled 503](#_Toc491433011)

[3.2.5.143.1.1.30 SupportedUILanguageIds 503](#_Toc491433012)

[3.2.5.143.1.1.31 AllowCreateDeclarativeWorkflowForCurrentUser 503](#_Toc491433013)

[3.2.5.143.1.1.32 AllowSaveDeclarativeWorkflowAsTemplateForCurrentUser 503](#_Toc491433014)

[3.2.5.143.1.1.33 AllowSavePublishDeclarativeWorkflowForCurrentUser 503](#_Toc491433015)

[3.2.5.143.1.1.34 DesignerDownloadUrlForCurrentUser 503](#_Toc491433016)

[3.2.5.143.1.1.35 MembersCanShare 504](#_Toc491433017)

[3.2.5.143.1.1.36 SiteLogoUrl 504](#_Toc491433018)

[3.2.5.143.1.1.37 AlternateCssUrl 504](#_Toc491433019)

[3.2.5.143.1.1.38 ContainsConfidentialInfo 504](#_Toc491433020)

[3.2.5.143.1.1.39 CurrentChangeToken 504](#_Toc491433021)

[3.2.5.143.1.1.40 IsMultilingual 504](#_Toc491433022)

[3.2.5.143.1.1.41 OverwriteTranslationsOnChange 504](#_Toc491433023)

[3.2.5.143.1.1.42 ThemeData 505](#_Toc491433024)

[3.2.5.143.1.1.43 ThirdPartyMdmEnabled 505](#_Toc491433025)

[3.2.5.143.1.1.44 RequestAccessEmail 505](#_Toc491433026)

[3.2.5.143.1.2 ObjectPath Properties 505](#_Toc491433027)

[3.2.5.143.1.2.1 AllProperties 505](#_Toc491433028)

[3.2.5.143.1.2.2 AssociatedMemberGroup 505](#_Toc491433029)

[3.2.5.143.1.2.3 AssociatedOwnerGroup 505](#_Toc491433030)

[3.2.5.143.1.2.4 AssociatedVisitorGroup 506](#_Toc491433031)

[3.2.5.143.1.2.5 AvailableContentTypes 506](#_Toc491433032)

[3.2.5.143.1.2.6 AvailableFields 506](#_Toc491433033)

[3.2.5.143.1.2.7 ContentTypes 506](#_Toc491433034)

[3.2.5.143.1.2.8 CurrentUser 506](#_Toc491433035)

[3.2.5.143.1.2.9 Features 507](#_Toc491433036)

[3.2.5.143.1.2.10 Fields 507](#_Toc491433037)

[3.2.5.143.1.2.11 Folders 507](#_Toc491433038)

[3.2.5.143.1.2.12 Lists 507](#_Toc491433039)

[3.2.5.143.1.2.13 ListTemplates 507](#_Toc491433040)

[3.2.5.143.1.2.14 Navigation 507](#_Toc491433041)

[3.2.5.143.1.2.15 RoleAssignments 508](#_Toc491433042)

[3.2.5.143.1.2.16 RoleDefinitions 508](#_Toc491433043)

[3.2.5.143.1.2.17 RootFolder 508](#_Toc491433044)

[3.2.5.143.1.2.18 SiteGroups 508](#_Toc491433045)

[3.2.5.143.1.2.19 SiteUserInfoList 508](#_Toc491433046)

[3.2.5.143.1.2.20 UserCustomActions 508](#_Toc491433047)

[3.2.5.143.1.2.21 Webs 508](#_Toc491433048)

[3.2.5.143.1.2.22 WorkflowAssociations 509](#_Toc491433049)

[3.2.5.143.1.2.23 WorkflowTemplates 509](#_Toc491433050)

[3.2.5.143.1.2.24 FirstUniqueAncestorSecurableObject 509](#_Toc491433051)

[3.2.5.143.1.2.25 RecycleBin 509](#_Toc491433052)

[3.2.5.143.1.2.26 WebInfos 509](#_Toc491433053)

[3.2.5.143.1.2.27 ThemeInfo 509](#_Toc491433054)

[3.2.5.143.1.2.28 EventReceivers 509](#_Toc491433055)

[3.2.5.143.1.2.29 SiteUsers 510](#_Toc491433056)

[3.2.5.143.1.2.30 RegionalSettings 510](#_Toc491433057)

[3.2.5.143.1.2.31 PushNotificationSubscribers 510](#_Toc491433058)

[3.2.5.143.1.2.32 ParentWeb 510](#_Toc491433059)

[3.2.5.143.1.2.33 AppTiles 510](#_Toc491433060)

[3.2.5.143.1.2.34 DataLeakagePreventionStatusInfo 510](#_Toc491433061)

[3.2.5.143.1.2.35 DescriptionResource 511](#_Toc491433062)

[3.2.5.143.1.2.36 TitleResource 511](#_Toc491433063)

[3.2.5.143.2 Methods 511](#_Toc491433064)

[3.2.5.143.2.1 Scalar Methods 511](#_Toc491433065)

[3.2.5.143.2.1.1 ApplyWebTemplate 511](#_Toc491433066)

[3.2.5.143.2.1.2 BreakRoleInheritance 511](#_Toc491433067)

[3.2.5.143.2.1.3 DeleteObject 512](#_Toc491433068)

[3.2.5.143.2.1.4 DoesUserHavePermissions 512](#_Toc491433069)

[3.2.5.143.2.1.5 GetWebUrlFromPageUrl 512](#_Toc491433070)

[3.2.5.143.2.1.6 MapToIcon 512](#_Toc491433071)

[3.2.5.143.2.1.7 ResetRoleInheritance 513](#_Toc491433072)

[3.2.5.143.2.1.8 Update 513](#_Toc491433073)

[3.2.5.143.2.1.9 ProcessExternalNotification 513](#_Toc491433074)

[3.2.5.143.2.1.10 GetContextWebInformation 514](#_Toc491433075)

[3.2.5.143.2.1.11 ExecuteRemoteLOB 514](#_Toc491433076)

[3.2.5.143.2.1.12 DoesPushNotificationSubscriberExist 514](#_Toc491433077)

[3.2.5.143.2.1.13 UnregisterPushNotificationSubscriber 515](#_Toc491433078)

[3.2.5.143.2.1.14 ApplyTheme 515](#_Toc491433079)

[3.2.5.143.2.1.15 GetUserEffectivePermissions 516](#_Toc491433080)

[3.2.5.143.2.1.16 AddSupportedUILanguage 516](#_Toc491433081)

[3.2.5.143.2.1.17 CreateAnonymousLink 516](#_Toc491433082)

[3.2.5.143.2.1.18 CreateAnonymousLinkWithExpiration 516](#_Toc491433083)

[3.2.5.143.2.1.19 CreateOrganizationSharingLink 517](#_Toc491433084)

[3.2.5.143.2.1.20 DeleteAllAnonymousLinksForObject 518](#_Toc491433085)

[3.2.5.143.2.1.21 DeleteAnonymousLinkForObject 518](#_Toc491433086)

[3.2.5.143.2.1.22 DestroyOrganizationSharingLink 518](#_Toc491433087)

[3.2.5.143.2.1.23 GetContextWebThemeData 519](#_Toc491433088)

[3.2.5.143.2.1.24 GetDocumentLibraries 519](#_Toc491433089)

[3.2.5.143.2.1.25 IncrementSiteClientTag 519](#_Toc491433090)

[3.2.5.143.2.1.26 RemoveSupportedUILanguage 520](#_Toc491433091)

[3.2.5.143.2.1.27 GetClientSideWebParts 520](#_Toc491433092)

[3.2.5.143.2.2 ObjectPath Methods 520](#_Toc491433093)

[3.2.5.143.2.2.1 EnsureUser 520](#_Toc491433094)

[3.2.5.143.2.2.2 GetAvailableWebTemplates 520](#_Toc491433095)

[3.2.5.143.2.2.3 GetCatalog 521](#_Toc491433096)

[3.2.5.143.2.2.4 GetChanges 521](#_Toc491433097)

[3.2.5.143.2.2.5 GetFileByServerRelativeUrl 521](#_Toc491433098)

[3.2.5.143.2.2.6 GetFolderByServerRelativeUrl 521](#_Toc491433099)

[3.2.5.143.2.2.7 GetSubwebsForCurrentUser 522](#_Toc491433100)

[3.2.5.143.2.2.8 GetEntity 522](#_Toc491433101)

[3.2.5.143.2.2.9 GetUserById 523](#_Toc491433102)

[3.2.5.143.2.2.10 GetCustomListTemplates 523](#_Toc491433103)

[3.2.5.143.2.2.11 GetSubwebsFilteredForCurrentUser 523](#_Toc491433104)

[3.2.5.143.2.2.12 GetAppBdcCatalog 523](#_Toc491433105)

[3.2.5.143.2.2.13 GetAppBdcCatalogForAppInstance 524](#_Toc491433106)

[3.2.5.143.2.2.14 GetAppInstanceById 524](#_Toc491433107)

[3.2.5.143.2.2.15 LoadAndInstallApp 524](#_Toc491433108)

[3.2.5.143.2.2.16 GetPushNotificationSubscriber 524](#_Toc491433109)

[3.2.5.143.2.2.17 GetPushNotificationSubscribersByArgs 525](#_Toc491433110)

[3.2.5.143.2.2.18 GetPushNotificationSubscribersByUser 525](#_Toc491433111)

[3.2.5.143.2.2.19 RegisterPushNotificationSubscriber 526](#_Toc491433112)

[3.2.5.143.2.2.20 GetAppInstancesByProductId 526](#_Toc491433113)

[3.2.5.143.2.2.21 LoadAndInstallAppInSpecifiedLocale 526](#_Toc491433114)

[3.2.5.143.2.2.22 LoadApp 527](#_Toc491433115)

[3.2.5.143.2.2.23 DefaultDocumentLibrary 527](#_Toc491433116)

[3.2.5.143.2.2.24 ForwardObjectLink 527](#_Toc491433117)

[3.2.5.143.2.2.25 GetFileByGuestUrl 527](#_Toc491433118)

[3.2.5.143.2.2.26 GetFileById 528](#_Toc491433119)

[3.2.5.143.2.2.27 GetFileByLinkingUrl 528](#_Toc491433120)

[3.2.5.143.2.2.28 GetFolderById 528](#_Toc491433121)

[3.2.5.143.2.2.29 GetList 529](#_Toc491433122)

[3.2.5.143.2.2.30 GetObjectSharingSettings 529](#_Toc491433123)

[3.2.5.143.2.2.31 ShareObject 529](#_Toc491433124)

[3.2.5.143.2.2.32 UnshareObject 530](#_Toc491433125)

[3.2.5.143.2.2.33 GetRecycleBinItems 531](#_Toc491433126)

[3.2.5.144 Microsoft.SharePoint.Client.WebCollection 531](#_Toc491433127)

[3.2.5.144.1 Properties 531](#_Toc491433128)

[3.2.5.144.1.1 Scalar Properties 531](#_Toc491433129)

[3.2.5.144.1.2 ObjectPath Properties 532](#_Toc491433130)

[3.2.5.144.2 Methods 532](#_Toc491433131)

[3.2.5.144.2.1 Scalar Methods 532](#_Toc491433132)

[3.2.5.144.2.2 ObjectPath Methods 532](#_Toc491433133)

[3.2.5.144.2.2.1 Add 532](#_Toc491433134)

[3.2.5.145 Microsoft.SharePoint.Client.WebCreationInformation 532](#_Toc491433135)

[3.2.5.145.1 Properties 532](#_Toc491433136)

[3.2.5.145.1.1 Scalar Properties 532](#_Toc491433137)

[3.2.5.145.1.1.1 Description 532](#_Toc491433138)

[3.2.5.145.1.1.2 Language 533](#_Toc491433139)

[3.2.5.145.1.1.3 Title 533](#_Toc491433140)

[3.2.5.145.1.1.4 Url 533](#_Toc491433141)

[3.2.5.145.1.1.5 UseSamePermissionsAsParentSite 533](#_Toc491433142)

[3.2.5.145.1.1.6 WebTemplate 533](#_Toc491433143)

[3.2.5.145.1.2 ObjectPath Properties 533](#_Toc491433144)

[3.2.5.146 Microsoft.SharePoint.Client.WebParts.LimitedWebPartManager 533](#_Toc491433145)

[3.2.5.146.1 Properties 534](#_Toc491433146)

[3.2.5.146.1.1 Scalar Properties 534](#_Toc491433147)

[3.2.5.146.1.1.1 HasPersonalizedParts 534](#_Toc491433148)

[3.2.5.146.1.1.2 Scope 534](#_Toc491433149)

[3.2.5.146.1.2 ObjectPath Properties 534](#_Toc491433150)

[3.2.5.146.1.2.1 WebParts 534](#_Toc491433151)

[3.2.5.146.2 Methods 534](#_Toc491433152)

[3.2.5.146.2.1 Scalar Methods 534](#_Toc491433153)

[3.2.5.146.2.2 ObjectPath Methods 534](#_Toc491433154)

[3.2.5.146.2.2.1 AddWebPart 534](#_Toc491433155)

[3.2.5.146.2.2.2 ImportWebPart 535](#_Toc491433156)

[3.2.5.147 Microsoft.SharePoint.Client.WebParts.PersonalizationScope 536](#_Toc491433157)

[3.2.5.147.1 Field Values 536](#_Toc491433158)

[3.2.5.147.1.1 User 536](#_Toc491433159)

[3.2.5.147.1.2 Shared 536](#_Toc491433160)

[3.2.5.148 Microsoft.SharePoint.Client.WebParts.WebPart 536](#_Toc491433161)

[3.2.5.148.1 Properties 536](#_Toc491433162)

[3.2.5.148.1.1 Scalar Properties 536](#_Toc491433163)

[3.2.5.148.1.1.1 Hidden 536](#_Toc491433164)

[3.2.5.148.1.1.2 IsClosed 536](#_Toc491433165)

[3.2.5.148.1.1.3 Subtitle 537](#_Toc491433166)

[3.2.5.148.1.1.4 Title 537](#_Toc491433167)

[3.2.5.148.1.1.5 TitleUrl 537](#_Toc491433168)

[3.2.5.148.1.1.6 ZoneIndex 537](#_Toc491433169)

[3.2.5.148.1.2 ObjectPath Properties 537](#_Toc491433170)

[3.2.5.148.1.2.1 Properties 537](#_Toc491433171)

[3.2.5.148.2 Methods 538](#_Toc491433172)

[3.2.5.148.2.1 Scalar Methods 538](#_Toc491433173)

[3.2.5.148.2.2 ObjectPath Methods 538](#_Toc491433174)

[3.2.5.149 Microsoft.SharePoint.Client.WebParts.WebPartDefinition 538](#_Toc491433175)

[3.2.5.149.1 Properties 538](#_Toc491433176)

[3.2.5.149.1.1 Scalar Properties 538](#_Toc491433177)

[3.2.5.149.1.1.1 Id 538](#_Toc491433178)

[3.2.5.149.1.2 ObjectPath Properties 538](#_Toc491433179)

[3.2.5.149.1.2.1 WebPart 538](#_Toc491433180)

[3.2.5.149.2 Methods 538](#_Toc491433181)

[3.2.5.149.2.1 Scalar Methods 539](#_Toc491433182)

[3.2.5.149.2.1.1 CloseWebPart 539](#_Toc491433183)

[3.2.5.149.2.1.2 DeleteWebPart 539](#_Toc491433184)

[3.2.5.149.2.1.3 MoveWebPartTo 539](#_Toc491433185)

[3.2.5.149.2.1.4 OpenWebPart 540](#_Toc491433186)

[3.2.5.149.2.1.5 SaveWebPartChanges 540](#_Toc491433187)

[3.2.5.149.2.2 ObjectPath Methods 540](#_Toc491433188)

[3.2.5.150 Microsoft.SharePoint.Client.WebParts.WebPartDefinitionCollection 540](#_Toc491433189)

[3.2.5.150.1 Properties 540](#_Toc491433190)

[3.2.5.150.1.1 Scalar Properties 540](#_Toc491433191)

[3.2.5.150.1.2 ObjectPath Properties 540](#_Toc491433192)

[3.2.5.150.2 Methods 540](#_Toc491433193)

[3.2.5.150.2.1 Scalar Methods 540](#_Toc491433194)

[3.2.5.150.2.2 ObjectPath Methods 540](#_Toc491433195)

[3.2.5.150.2.2.1 GetById 540](#_Toc491433196)

[3.2.5.150.2.2.2 GetByControlId 541](#_Toc491433197)

[3.2.5.151 Microsoft.SharePoint.Client.WebTemplate 541](#_Toc491433198)

[3.2.5.151.1 Properties 541](#_Toc491433199)

[3.2.5.151.1.1 Scalar Properties 541](#_Toc491433200)

[3.2.5.151.1.1.1 Description 541](#_Toc491433201)

[3.2.5.151.1.1.2 DisplayCategory 541](#_Toc491433202)

[3.2.5.151.1.1.3 Id 542](#_Toc491433203)

[3.2.5.151.1.1.4 ImageUrl 542](#_Toc491433204)

[3.2.5.151.1.1.5 IsHidden 542](#_Toc491433205)

[3.2.5.151.1.1.6 IsRootWebOnly 542](#_Toc491433206)

[3.2.5.151.1.1.7 IsSubWebOnly 542](#_Toc491433207)

[3.2.5.151.1.1.8 Lcid 542](#_Toc491433208)

[3.2.5.151.1.1.9 Name 542](#_Toc491433209)

[3.2.5.151.1.1.10 Title 543](#_Toc491433210)

[3.2.5.151.1.2 ObjectPath Properties 543](#_Toc491433211)

[3.2.5.151.2 Methods 543](#_Toc491433212)

[3.2.5.151.2.1 Scalar Methods 543](#_Toc491433213)

[3.2.5.151.2.2 ObjectPath Methods 543](#_Toc491433214)

[3.2.5.152 Microsoft.SharePoint.Client.WebTemplateCollection 543](#_Toc491433215)

[3.2.5.152.1 Properties 543](#_Toc491433216)

[3.2.5.152.1.1 Scalar Properties 543](#_Toc491433217)

[3.2.5.152.1.2 ObjectPath Properties 543](#_Toc491433218)

[3.2.5.152.2 Methods 543](#_Toc491433219)

[3.2.5.152.2.1 Scalar Methods 543](#_Toc491433220)

[3.2.5.152.2.2 ObjectPath Methods 543](#_Toc491433221)

[3.2.5.152.2.2.1 GetByName 543](#_Toc491433222)

[3.2.5.153 Microsoft.SharePoint.Client.Workflow.WorkflowAssociation 544](#_Toc491433223)

[3.2.5.153.1 Properties 544](#_Toc491433224)

[3.2.5.153.1.1 Scalar Properties 544](#_Toc491433225)

[3.2.5.153.1.1.1 AllowManual 544](#_Toc491433226)

[3.2.5.153.1.1.2 AssociationData 544](#_Toc491433227)

[3.2.5.153.1.1.3 AutoStartChange 544](#_Toc491433228)

[3.2.5.153.1.1.4 AutoStartCreate 545](#_Toc491433229)

[3.2.5.153.1.1.5 BaseId 545](#_Toc491433230)

[3.2.5.153.1.1.6 Created 545](#_Toc491433231)

[3.2.5.153.1.1.7 Description 545](#_Toc491433232)

[3.2.5.153.1.1.8 Enabled 545](#_Toc491433233)

[3.2.5.153.1.1.9 HistoryListTitle 545](#_Toc491433234)

[3.2.5.153.1.1.10 Id 546](#_Toc491433235)

[3.2.5.153.1.1.11 InstantiationUrl 546](#_Toc491433236)

[3.2.5.153.1.1.12 InternalName 546](#_Toc491433237)

[3.2.5.153.1.1.13 IsDeclarative 546](#_Toc491433238)

[3.2.5.153.1.1.14 ListId 546](#_Toc491433239)

[3.2.5.153.1.1.15 Modified 546](#_Toc491433240)

[3.2.5.153.1.1.16 Name 546](#_Toc491433241)

[3.2.5.153.1.1.17 TaskListTitle 547](#_Toc491433242)

[3.2.5.153.1.1.18 WebId 547](#_Toc491433243)

[3.2.5.153.1.2 ObjectPath Properties 547](#_Toc491433244)

[3.2.5.153.2 Methods 547](#_Toc491433245)

[3.2.5.153.2.1 Scalar Methods 547](#_Toc491433246)

[3.2.5.153.2.1.1 DeleteObject 547](#_Toc491433247)

[3.2.5.153.2.1.2 Update 547](#_Toc491433248)

[3.2.5.153.2.2 ObjectPath Methods 547](#_Toc491433249)

[3.2.5.154 Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCollection 548](#_Toc491433250)

[3.2.5.154.1 Properties 548](#_Toc491433251)

[3.2.5.154.1.1 Scalar Properties 548](#_Toc491433252)

[3.2.5.154.1.2 ObjectPath Properties 548](#_Toc491433253)

[3.2.5.154.2 Methods 548](#_Toc491433254)

[3.2.5.154.2.1 Scalar Methods 548](#_Toc491433255)

[3.2.5.154.2.2 ObjectPath Methods 548](#_Toc491433256)

[3.2.5.154.2.2.1 Add 548](#_Toc491433257)

[3.2.5.154.2.2.2 GetById 548](#_Toc491433258)

[3.2.5.154.2.2.3 GetByName 548](#_Toc491433259)

[3.2.5.155 Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCreationInformation 549](#_Toc491433260)

[3.2.5.155.1 Properties 549](#_Toc491433261)

[3.2.5.155.1.1 Scalar Properties 549](#_Toc491433262)

[3.2.5.155.1.1.1 ContentTypeAssociationHistoryListName 549](#_Toc491433263)

[3.2.5.155.1.1.2 ContentTypeAssociationTaskListName 549](#_Toc491433264)

[3.2.5.155.1.1.3 Name 549](#_Toc491433265)

[3.2.5.155.1.2 ObjectPath Properties 550](#_Toc491433266)

[3.2.5.155.1.2.1 HistoryList 550](#_Toc491433267)

[3.2.5.155.1.2.2 TaskList 550](#_Toc491433268)

[3.2.5.155.1.2.3 Template 550](#_Toc491433269)

[3.2.5.156 Microsoft.SharePoint.Client.Workflow.WorkflowTemplate 550](#_Toc491433270)

[3.2.5.156.1 Properties 550](#_Toc491433271)

[3.2.5.156.1.1 Scalar Properties 550](#_Toc491433272)

[3.2.5.156.1.1.1 AllowManual 550](#_Toc491433273)

[3.2.5.156.1.1.2 AssociationUrl 551](#_Toc491433274)

[3.2.5.156.1.1.3 AutoStartChange 551](#_Toc491433275)

[3.2.5.156.1.1.4 AutoStartCreate 551](#_Toc491433276)

[3.2.5.156.1.1.5 Description 551](#_Toc491433277)

[3.2.5.156.1.1.6 Id 551](#_Toc491433278)

[3.2.5.156.1.1.7 IsDeclarative 551](#_Toc491433279)

[3.2.5.156.1.1.8 Name 551](#_Toc491433280)

[3.2.5.156.1.1.9 PermissionsManual 552](#_Toc491433281)

[3.2.5.156.1.2 ObjectPath Properties 552](#_Toc491433282)

[3.2.5.156.2 Methods 552](#_Toc491433283)

[3.2.5.156.2.1 Scalar Methods 552](#_Toc491433284)

[3.2.5.156.2.2 ObjectPath Methods 552](#_Toc491433285)

[3.2.5.157 Microsoft.SharePoint.Client.Workflow.WorkflowTemplateCollection 552](#_Toc491433286)

[3.2.5.157.1 Properties 552](#_Toc491433287)

[3.2.5.157.1.1 Scalar Properties 552](#_Toc491433288)

[3.2.5.157.1.2 ObjectPath Properties 552](#_Toc491433289)

[3.2.5.157.2 Methods 552](#_Toc491433290)

[3.2.5.157.2.1 Scalar Methods 552](#_Toc491433291)

[3.2.5.157.2.2 ObjectPath Methods 552](#_Toc491433292)

[3.2.5.157.2.2.1 GetById 553](#_Toc491433293)

[3.2.5.157.2.2.2 GetByName 553](#_Toc491433294)

[3.2.5.158 Microsoft.BusinessData.MetadataModel.Collections.EntityFieldCollection 553](#_Toc491433295)

[3.2.5.158.1 Properties 553](#_Toc491433296)

[3.2.5.158.1.1 Scalar Properties 553](#_Toc491433297)

[3.2.5.158.1.2 ObjectPath Properties 553](#_Toc491433298)

[3.2.5.158.2 Methods 553](#_Toc491433299)

[3.2.5.158.2.1 Scalar Methods 553](#_Toc491433300)

[3.2.5.158.2.2 ObjectPath Methods 553](#_Toc491433301)

[3.2.5.159 Microsoft.BusinessData.MetadataModel.Collections.EntityIdentifierCollection 554](#_Toc491433302)

[3.2.5.159.1 Properties 554](#_Toc491433303)

[3.2.5.159.1.1 Scalar Properties 554](#_Toc491433304)

[3.2.5.159.1.2 ObjectPath Properties 554](#_Toc491433305)

[3.2.5.159.2 Methods 554](#_Toc491433306)

[3.2.5.159.2.1 Scalar Methods 554](#_Toc491433307)

[3.2.5.159.2.2 ObjectPath Methods 554](#_Toc491433308)

[3.2.5.160 Microsoft.BusinessData.MetadataModel.Collections.LobSystemInstanceCollection 554](#_Toc491433309)

[3.2.5.160.1 Properties 554](#_Toc491433310)

[3.2.5.160.1.1 Scalar Properties 554](#_Toc491433311)

[3.2.5.160.1.2 ObjectPath Properties 554](#_Toc491433312)

[3.2.5.160.2 Methods 554](#_Toc491433313)

[3.2.5.160.2.1 Scalar Methods 554](#_Toc491433314)

[3.2.5.160.2.2 ObjectPath Methods 555](#_Toc491433315)

[3.2.5.161 Microsoft.BusinessData.MetadataModel.Collections.TypeDescriptorCollection 555](#_Toc491433316)

[3.2.5.161.1 Properties 555](#_Toc491433317)

[3.2.5.161.1.1 Scalar Properties 555](#_Toc491433318)

[3.2.5.161.1.2 ObjectPath Properties 555](#_Toc491433319)

[3.2.5.161.2 Methods 555](#_Toc491433320)

[3.2.5.161.2.1 Scalar Methods 555](#_Toc491433321)

[3.2.5.161.2.2 ObjectPath Methods 555](#_Toc491433322)

[3.2.5.162 Microsoft.BusinessData.MetadataModel.EntityField 555](#_Toc491433323)

[3.2.5.162.1 Properties 555](#_Toc491433324)

[3.2.5.162.1.1 Scalar Properties 555](#_Toc491433325)

[3.2.5.162.1.1.1 ContainsLocalizedDisplayName 555](#_Toc491433326)

[3.2.5.162.1.1.2 DefaultDisplayName 555](#_Toc491433327)

[3.2.5.162.1.1.3 LocalizedDisplayName 556](#_Toc491433328)

[3.2.5.162.1.1.4 Name 556](#_Toc491433329)

[3.2.5.162.1.2 ObjectPath Properties 556](#_Toc491433330)

[3.2.5.162.2 Methods 556](#_Toc491433331)

[3.2.5.162.2.1 Scalar Methods 556](#_Toc491433332)

[3.2.5.162.2.2 ObjectPath Methods 556](#_Toc491433333)

[3.2.5.163 Microsoft.BusinessData.MetadataModel.EntityView 556](#_Toc491433334)

[3.2.5.163.1 Properties 556](#_Toc491433335)

[3.2.5.163.1.1 Scalar Properties 556](#_Toc491433336)

[3.2.5.163.1.1.1 Name 556](#_Toc491433337)

[3.2.5.163.1.1.2 RelatedSpecificFinderName 556](#_Toc491433338)

[3.2.5.163.1.2 ObjectPath Properties 557](#_Toc491433339)

[3.2.5.163.1.2.1 Fields 557](#_Toc491433340)

[3.2.5.163.2 Methods 557](#_Toc491433341)

[3.2.5.163.2.1 Scalar Methods 557](#_Toc491433342)

[3.2.5.163.2.1.1 GetType 557](#_Toc491433343)

[3.2.5.163.2.1.2 GetXmlSchema 557](#_Toc491433344)

[3.2.5.163.2.2 ObjectPath Methods 558](#_Toc491433345)

[3.2.5.163.2.2.1 GetDefaultValues 558](#_Toc491433346)

[3.2.5.163.2.2.2 GetTypeDescriptor 558](#_Toc491433347)

[3.2.5.164 Microsoft.BusinessData.Runtime.EntityFieldValueDictionary 558](#_Toc491433348)

[3.2.5.164.1 Properties 558](#_Toc491433349)

[3.2.5.164.1.1 Scalar Properties 558](#_Toc491433350)

[3.2.5.164.1.2 ObjectPath Properties 558](#_Toc491433351)

[3.2.5.164.2 Methods 558](#_Toc491433352)

[3.2.5.164.2.1 Scalar Methods 559](#_Toc491433353)

[3.2.5.164.2.1.1 CreateCollectionInstance 559](#_Toc491433354)

[3.2.5.164.2.1.2 CreateInstance 559](#_Toc491433355)

[3.2.5.164.2.1.3 FromXml 560](#_Toc491433356)

[3.2.5.164.2.1.4 GetCollectionSize 560](#_Toc491433357)

[3.2.5.164.2.1.5 SetFieldValue 560](#_Toc491433358)

[3.2.5.164.2.1.6 ToXml 561](#_Toc491433359)

[3.2.5.164.2.2 ObjectPath Methods 561](#_Toc491433360)

[3.2.5.165 Microsoft.BusinessData.Runtime.EntityIdentity 561](#_Toc491433361)

[3.2.5.165.1 Properties 561](#_Toc491433362)

[3.2.5.165.1.1 Scalar Properties 561](#_Toc491433363)

[3.2.5.165.1.1.1 IdentifierCount 561](#_Toc491433364)

[3.2.5.165.1.2 ObjectPath Properties 561](#_Toc491433365)

[3.2.5.165.2 Methods 562](#_Toc491433366)

[3.2.5.165.2.1 Scalar Methods 562](#_Toc491433367)

[3.2.5.165.2.2 ObjectPath Methods 562](#_Toc491433368)

[3.2.5.165.2.2.1 CSOM Constructor 562](#_Toc491433369)

[3.2.5.166 Microsoft.BusinessData.Runtime.EntityInstance 562](#_Toc491433370)

[3.2.5.166.1 Properties 562](#_Toc491433371)

[3.2.5.166.1.1 Scalar Properties 562](#_Toc491433372)

[3.2.5.166.1.2 ObjectPath Properties 562](#_Toc491433373)

[3.2.5.166.2 Methods 562](#_Toc491433374)

[3.2.5.166.2.1 Scalar Methods 562](#_Toc491433375)

[3.2.5.166.2.1.1 CreateCollectionInstance 562](#_Toc491433376)

[3.2.5.166.2.1.2 CreateInstance 563](#_Toc491433377)

[3.2.5.166.2.1.3 DeleteObject 563](#_Toc491433378)

[3.2.5.166.2.1.4 FromXml 564](#_Toc491433379)

[3.2.5.166.2.1.5 SetFieldValue 564](#_Toc491433380)

[3.2.5.166.2.1.6 ToXml 564](#_Toc491433381)

[3.2.5.166.2.1.7 Update 564](#_Toc491433382)

[3.2.5.166.2.2 ObjectPath Methods 565](#_Toc491433383)

[3.2.5.166.2.2.1 GetIdentity 565](#_Toc491433384)

[3.2.5.167 Microsoft.SharePoint.Client.AlternateUrl 565](#_Toc491433385)

[3.2.5.167.1 Properties 565](#_Toc491433386)

[3.2.5.167.1.1 Scalar Properties 565](#_Toc491433387)

[3.2.5.167.1.1.1 Uri 565](#_Toc491433388)

[3.2.5.167.1.1.2 UrlZone 565](#_Toc491433389)

[3.2.5.167.1.2 ObjectPath Properties 565](#_Toc491433390)

[3.2.5.167.2 Methods 566](#_Toc491433391)

[3.2.5.167.2.1 Scalar Methods 566](#_Toc491433392)

[3.2.5.167.2.2 ObjectPath Methods 566](#_Toc491433393)

[3.2.5.168 Microsoft.SharePoint.Client.Analytics.EventTypeId 566](#_Toc491433394)

[3.2.5.168.1 Field Values 566](#_Toc491433395)

[3.2.5.168.1.1 View 566](#_Toc491433396)

[3.2.5.168.1.2 First 566](#_Toc491433397)

[3.2.5.168.1.3 RecommendationView 566](#_Toc491433398)

[3.2.5.168.1.4 RecommendationClick 566](#_Toc491433399)

[3.2.5.168.1.5 Last 566](#_Toc491433400)

[3.2.5.168.1.6 None 566](#_Toc491433401)

[3.2.5.169 Microsoft.SharePoint.Client.Attachment 567](#_Toc491433402)

[3.2.5.169.1 Properties 567](#_Toc491433403)

[3.2.5.169.1.1 Scalar Properties 567](#_Toc491433404)

[3.2.5.169.1.1.1 ServerRelativeUrl 567](#_Toc491433405)

[3.2.5.169.1.1.2 FileName 567](#_Toc491433406)

[3.2.5.169.1.2 ObjectPath Properties 567](#_Toc491433407)

[3.2.5.169.2 Methods 567](#_Toc491433408)

[3.2.5.169.2.1 Scalar Methods 567](#_Toc491433409)

[3.2.5.169.2.1.1 DeleteObject 567](#_Toc491433410)

[3.2.5.169.2.2 ObjectPath Methods 567](#_Toc491433411)

[3.2.5.170 Microsoft.SharePoint.Client.AttachmentCollection 567](#_Toc491433412)

[3.2.5.170.1 Properties 567](#_Toc491433413)

[3.2.5.170.1.1 Scalar Properties 568](#_Toc491433414)

[3.2.5.170.1.2 ObjectPath Properties 568](#_Toc491433415)

[3.2.5.170.2 Methods 568](#_Toc491433416)

[3.2.5.170.2.1 Scalar Methods 568](#_Toc491433417)

[3.2.5.170.2.2 ObjectPath Methods 568](#_Toc491433418)

[3.2.5.170.2.2.1 Add 568](#_Toc491433419)

[3.2.5.170.2.2.2 GetByFileName 568](#_Toc491433420)

[3.2.5.171 Microsoft.SharePoint.Client.AttachmentCreationInformation 568](#_Toc491433421)

[3.2.5.171.1 Properties 569](#_Toc491433422)

[3.2.5.171.1.1 Scalar Properties 569](#_Toc491433423)

[3.2.5.171.1.1.1 ContentStream 569](#_Toc491433424)

[3.2.5.171.1.1.2 FileName 569](#_Toc491433425)

[3.2.5.171.1.2 ObjectPath Properties 569](#_Toc491433426)

[3.2.5.172 Microsoft.SharePoint.Client.ServerSettings 569](#_Toc491433427)

[3.2.5.172.1 Properties 569](#_Toc491433428)

[3.2.5.172.1.1 Scalar Properties 569](#_Toc491433429)

[3.2.5.172.1.2 ObjectPath Properties 569](#_Toc491433430)

[3.2.5.172.2 Methods 569](#_Toc491433431)

[3.2.5.172.2.1 Scalar Methods 569](#_Toc491433432)

[3.2.5.172.2.1.1 GetBlockedFileExtensions 569](#_Toc491433433)

[3.2.5.172.2.1.2 GetGlobalInstalledLanguages 570](#_Toc491433434)

[3.2.5.172.2.1.3 IsSharePointOnline 570](#_Toc491433435)

[3.2.5.172.2.2 ObjectPath Methods 570](#_Toc491433436)

[3.2.5.172.2.2.1 GetAlternateUrls 570](#_Toc491433437)

[3.2.5.173 Microsoft.SharePoint.Client.WebProxy 570](#_Toc491433438)

[3.2.5.173.1 Properties 570](#_Toc491433439)

[3.2.5.173.1.1 Scalar Properties 570](#_Toc491433440)

[3.2.5.173.1.2 ObjectPath Properties 570](#_Toc491433441)

[3.2.5.173.2 Methods 570](#_Toc491433442)

[3.2.5.173.2.1 Scalar Methods 571](#_Toc491433443)

[3.2.5.173.2.1.1 Invoke 571](#_Toc491433444)

[3.2.5.173.2.2 ObjectPath Methods 571](#_Toc491433445)

[3.2.5.174 Microsoft.SharePoint.Client.WebRequestInfo 571](#_Toc491433446)

[3.2.5.174.1 Properties 571](#_Toc491433447)

[3.2.5.174.1.1 Scalar Properties 571](#_Toc491433448)

[3.2.5.174.1.1.1 Body 571](#_Toc491433449)

[3.2.5.174.1.1.2 Headers 571](#_Toc491433450)

[3.2.5.174.1.1.3 Method 571](#_Toc491433451)

[3.2.5.174.1.1.4 Url 572](#_Toc491433452)

[3.2.5.174.1.2 ObjectPath Properties 572](#_Toc491433453)

[3.2.5.175 Microsoft.SharePoint.Client.WebResponseInfo 572](#_Toc491433454)

[3.2.5.175.1 Properties 572](#_Toc491433455)

[3.2.5.175.1.1 Scalar Properties 572](#_Toc491433456)

[3.2.5.175.1.1.1 Body 572](#_Toc491433457)

[3.2.5.175.1.1.2 Headers 572](#_Toc491433458)

[3.2.5.175.1.1.3 StatusCode 572](#_Toc491433459)

[3.2.5.175.1.2 ObjectPath Properties 572](#_Toc491433460)

[3.2.5.176 Microsoft.BusinessData.MetadataModel.Entity 572](#_Toc491433461)

[3.2.5.176.1 Properties 573](#_Toc491433462)

[3.2.5.176.1.1 Scalar Properties 573](#_Toc491433463)

[3.2.5.176.1.1.1 EstimatedInstanceCount 573](#_Toc491433464)

[3.2.5.176.1.1.2 Name 573](#_Toc491433465)

[3.2.5.176.1.1.3 Namespace 573](#_Toc491433466)

[3.2.5.176.1.2 ObjectPath Properties 573](#_Toc491433467)

[3.2.5.176.2 Methods 573](#_Toc491433468)

[3.2.5.176.2.1 Scalar Methods 573](#_Toc491433469)

[3.2.5.176.2.1.1 GetIdentifierCount 573](#_Toc491433470)

[3.2.5.176.2.1.2 Unsubscribe 573](#_Toc491433471)

[3.2.5.176.2.2 ObjectPath Methods 574](#_Toc491433472)

[3.2.5.176.2.2.1 Create 574](#_Toc491433473)

[3.2.5.176.2.2.2 FindSpecific 575](#_Toc491433474)

[3.2.5.176.2.2.3 FindSpecificByBdcId 576](#_Toc491433475)

[3.2.5.176.2.2.4 FindSpecificDefault 577](#_Toc491433476)

[3.2.5.176.2.2.5 FindSpecificDefaultByBdcId 577](#_Toc491433477)

[3.2.5.176.2.2.6 GetCreatorView 578](#_Toc491433478)

[3.2.5.176.2.2.7 GetDefaultSpecificFinderView 578](#_Toc491433479)

[3.2.5.176.2.2.8 GetIdentifiers 578](#_Toc491433480)

[3.2.5.176.2.2.9 GetLobSystem 579](#_Toc491433481)

[3.2.5.176.2.2.10 GetSpecificFinderView 579](#_Toc491433482)

[3.2.5.176.2.2.11 GetUpdaterView 579](#_Toc491433483)

[3.2.5.176.2.2.12 FindAssociated 580](#_Toc491433484)

[3.2.5.176.2.2.13 FindFiltered 580](#_Toc491433485)

[3.2.5.176.2.2.14 GetAssociationView 581](#_Toc491433486)

[3.2.5.176.2.2.15 GetFilters 582](#_Toc491433487)

[3.2.5.176.2.2.16 Execute 582](#_Toc491433488)

[3.2.5.176.2.2.17 GetFinderView 583](#_Toc491433489)

[3.2.5.176.2.2.18 Subscribe 583](#_Toc491433490)

[3.2.5.177 Microsoft.BusinessData.MetadataModel.EntityIdentifier 584](#_Toc491433491)

[3.2.5.177.1 Properties 584](#_Toc491433492)

[3.2.5.177.1.1 Scalar Properties 584](#_Toc491433493)

[3.2.5.177.1.1.1 IdentifierType 584](#_Toc491433494)

[3.2.5.177.1.1.2 Name 584](#_Toc491433495)

[3.2.5.177.1.2 ObjectPath Properties 585](#_Toc491433496)

[3.2.5.177.2 Methods 585](#_Toc491433497)

[3.2.5.177.2.1 Scalar Methods 585](#_Toc491433498)

[3.2.5.177.2.1.1 ContainsLocalizedDisplayName 585](#_Toc491433499)

[3.2.5.177.2.1.2 GetDefaultDisplayName 585](#_Toc491433500)

[3.2.5.177.2.1.3 GetLocalizedDisplayName 585](#_Toc491433501)

[3.2.5.177.2.2 ObjectPath Methods 585](#_Toc491433502)

[3.2.5.178 Microsoft.BusinessData.MetadataModel.LobSystem 585](#_Toc491433503)

[3.2.5.178.1 Properties 586](#_Toc491433504)

[3.2.5.178.1.1 Scalar Properties 586](#_Toc491433505)

[3.2.5.178.1.1.1 Name 586](#_Toc491433506)

[3.2.5.178.1.2 ObjectPath Properties 586](#_Toc491433507)

[3.2.5.178.2 Methods 586](#_Toc491433508)

[3.2.5.178.2.1 Scalar Methods 586](#_Toc491433509)

[3.2.5.178.2.2 ObjectPath Methods 586](#_Toc491433510)

[3.2.5.178.2.2.1 GetLobSystemInstances 586](#_Toc491433511)

[3.2.5.179 Microsoft.BusinessData.MetadataModel.LobSystemInstance 586](#_Toc491433512)

[3.2.5.179.1 Properties 586](#_Toc491433513)

[3.2.5.179.1.1 Scalar Properties 586](#_Toc491433514)

[3.2.5.179.1.1.1 Name 586](#_Toc491433515)

[3.2.5.179.1.2 ObjectPath Properties 586](#_Toc491433516)

[3.2.5.179.2 Methods 587](#_Toc491433517)

[3.2.5.179.2.1 Scalar Methods 587](#_Toc491433518)

[3.2.5.179.2.2 ObjectPath Methods 587](#_Toc491433519)

[3.2.5.180 Microsoft.BusinessData.MetadataModel.TypeDescriptor 587](#_Toc491433520)

[3.2.5.180.1 Properties 587](#_Toc491433521)

[3.2.5.180.1.1 Scalar Properties 587](#_Toc491433522)

[3.2.5.180.1.1.1 ContainsReadOnly 587](#_Toc491433523)

[3.2.5.180.1.1.2 IsCollection 587](#_Toc491433524)

[3.2.5.180.1.1.3 IsReadOnly 587](#_Toc491433525)

[3.2.5.180.1.1.4 Name 587](#_Toc491433526)

[3.2.5.180.1.1.5 TypeName 587](#_Toc491433527)

[3.2.5.180.1.2 ObjectPath Properties 588](#_Toc491433528)

[3.2.5.180.2 Methods 588](#_Toc491433529)

[3.2.5.180.2.1 Scalar Methods 588](#_Toc491433530)

[3.2.5.180.2.1.1 ContainsLocalizedDisplayName 588](#_Toc491433531)

[3.2.5.180.2.1.2 GetDefaultDisplayName 588](#_Toc491433532)

[3.2.5.180.2.1.3 GetLocalizedDisplayName 588](#_Toc491433533)

[3.2.5.180.2.1.4 IsLeaf 588](#_Toc491433534)

[3.2.5.180.2.1.5 IsRoot 588](#_Toc491433535)

[3.2.5.180.2.2 ObjectPath Methods 589](#_Toc491433536)

[3.2.5.180.2.2.1 GetChildTypeDescriptors 589](#_Toc491433537)

[3.2.5.180.2.2.2 GetParentTypeDescriptor 589](#_Toc491433538)

[3.2.5.181 Microsoft.SharePoint.Client.AppCatalog 589](#_Toc491433539)

[3.2.5.181.1 Properties 589](#_Toc491433540)

[3.2.5.181.1.1 Scalar Properties 589](#_Toc491433541)

[3.2.5.181.1.2 ObjectPath Properties 589](#_Toc491433542)

[3.2.5.181.2 Methods 589](#_Toc491433543)

[3.2.5.181.2.1 Scalar Methods 589](#_Toc491433544)

[3.2.5.181.2.1.1 IsAppSideloadingEnabled 589](#_Toc491433545)

[3.2.5.181.2.1.2 GetAppPermissionDescriptions 590](#_Toc491433546)

[3.2.5.181.2.2 ObjectPath Methods 590](#_Toc491433547)

[3.2.5.181.2.2.1 GetAppDetails 590](#_Toc491433548)

[3.2.5.181.2.2.2 GetAppInstance 590](#_Toc491433549)

[3.2.5.181.2.2.3 GetAppInstances 591](#_Toc491433550)

[3.2.5.181.2.2.4 GetDeveloperSiteAppInstancesByIds 591](#_Toc491433551)

[3.2.5.182 Microsoft.SharePoint.Client.AppInstance 591](#_Toc491433552)

[3.2.5.182.1 Properties 591](#_Toc491433553)

[3.2.5.182.1.1 Scalar Properties 591](#_Toc491433554)

[3.2.5.182.1.1.1 Id 592](#_Toc491433555)

[3.2.5.182.1.1.2 AppWebFullUrl 592](#_Toc491433556)

[3.2.5.182.1.1.3 InError 592](#_Toc491433557)

[3.2.5.182.1.1.4 RemoteAppUrl 592](#_Toc491433558)

[3.2.5.182.1.1.5 SiteId 592](#_Toc491433559)

[3.2.5.182.1.1.6 Status 592](#_Toc491433560)

[3.2.5.182.1.1.7 Title 592](#_Toc491433561)

[3.2.5.182.1.1.8 WebId 592](#_Toc491433562)

[3.2.5.182.1.1.9 StartPage 593](#_Toc491433563)

[3.2.5.182.1.1.10 AppPrincipalId 593](#_Toc491433564)

[3.2.5.182.1.1.11 SettingsPageUrl 593](#_Toc491433565)

[3.2.5.182.1.1.12 ImageFallbackUrl 593](#_Toc491433566)

[3.2.5.182.1.1.13 ImageUrl 593](#_Toc491433567)

[3.2.5.182.1.1.14 PackageFingerprint 593](#_Toc491433568)

[3.2.5.182.1.1.15 ProductId 593](#_Toc491433569)

[3.2.5.182.1.2 ObjectPath Properties 594](#_Toc491433570)

[3.2.5.182.2 Methods 594](#_Toc491433571)

[3.2.5.182.2.1 Scalar Methods 594](#_Toc491433572)

[3.2.5.182.2.1.1 Uninstall 594](#_Toc491433573)

[3.2.5.182.2.1.2 CancelAllJobs 594](#_Toc491433574)

[3.2.5.182.2.1.3 RetryAllJobs 594](#_Toc491433575)

[3.2.5.182.2.1.4 Upgrade 594](#_Toc491433576)

[3.2.5.182.2.1.5 Install 594](#_Toc491433577)

[3.2.5.182.2.1.6 RetrieveAppDatabaseConnectionString 594](#_Toc491433578)

[3.2.5.182.2.1.7 GetAppDatabaseConnectionString 595](#_Toc491433579)

[3.2.5.182.2.1.8 Recycle 595](#_Toc491433580)

[3.2.5.182.2.1.9 Restore 595](#_Toc491433581)

[3.2.5.182.2.2 ObjectPath Methods 595](#_Toc491433582)

[3.2.5.182.2.2.1 GetPreviousAppVersion 595](#_Toc491433583)

[3.2.5.182.2.2.2 GetErrorDetails 595](#_Toc491433584)

[3.2.5.182.2.2.3 GetAppIcon 595](#_Toc491433585)

[3.2.5.183 Microsoft.SharePoint.Client.ChangeLogItemQuery 596](#_Toc491433586)

[3.2.5.183.1 Properties 596](#_Toc491433587)

[3.2.5.183.1.1 Scalar Properties 596](#_Toc491433588)

[3.2.5.183.1.1.1 ChangeToken 596](#_Toc491433589)

[3.2.5.183.1.1.2 Contains 596](#_Toc491433590)

[3.2.5.183.1.1.3 Query 596](#_Toc491433591)

[3.2.5.183.1.1.4 QueryOptions 596](#_Toc491433592)

[3.2.5.183.1.1.5 ViewName 597](#_Toc491433593)

[3.2.5.183.1.1.6 RowLimit 597](#_Toc491433594)

[3.2.5.183.1.1.7 ViewFields 597](#_Toc491433595)

[3.2.5.183.1.2 ObjectPath Properties 597](#_Toc491433596)

[3.2.5.184 Microsoft.SharePoint.Client.FieldCreationInformation 597](#_Toc491433597)

[3.2.5.184.1 Properties 597](#_Toc491433598)

[3.2.5.184.1.1 Scalar Properties 597](#_Toc491433599)

[3.2.5.184.1.1.1 Choices 597](#_Toc491433600)

[3.2.5.184.1.1.2 FieldTypeKind 597](#_Toc491433601)

[3.2.5.184.1.1.3 IsCompactName 598](#_Toc491433602)

[3.2.5.184.1.1.4 LookupFieldName 598](#_Toc491433603)

[3.2.5.184.1.1.5 LookupListId 598](#_Toc491433604)

[3.2.5.184.1.1.6 LookupWebId 598](#_Toc491433605)

[3.2.5.184.1.1.7 Required 598](#_Toc491433606)

[3.2.5.184.1.1.8 Title 598](#_Toc491433607)

[3.2.5.184.1.2 ObjectPath Properties 598](#_Toc491433608)

[3.2.5.185 Microsoft.SharePoint.Client.FieldGeolocation 598](#_Toc491433609)

[3.2.5.185.1 Properties 599](#_Toc491433610)

[3.2.5.185.1.1 Scalar Properties 599](#_Toc491433611)

[3.2.5.185.1.1.1 CanBeDeleted 599](#_Toc491433612)

[3.2.5.185.1.1.2 DefaultValue 599](#_Toc491433613)

[3.2.5.185.1.1.3 Description 599](#_Toc491433614)

[3.2.5.185.1.1.4 Direction 599](#_Toc491433615)

[3.2.5.185.1.1.5 EnforceUniqueValues 600](#_Toc491433616)

[3.2.5.185.1.1.6 FieldTypeKind 600](#_Toc491433617)

[3.2.5.185.1.1.7 Filterable 600](#_Toc491433618)

[3.2.5.185.1.1.8 FromBaseType 600](#_Toc491433619)

[3.2.5.185.1.1.9 Group 600](#_Toc491433620)

[3.2.5.185.1.1.10 Hidden 601](#_Toc491433621)

[3.2.5.185.1.1.11 Id 601](#_Toc491433622)

[3.2.5.185.1.1.12 InternalName 601](#_Toc491433623)

[3.2.5.185.1.1.13 ReadOnlyField 601](#_Toc491433624)

[3.2.5.185.1.1.14 Required 601](#_Toc491433625)

[3.2.5.185.1.1.15 SchemaXml 602](#_Toc491433626)

[3.2.5.185.1.1.16 Scope 602](#_Toc491433627)

[3.2.5.185.1.1.17 Sealed 602](#_Toc491433628)

[3.2.5.185.1.1.18 Sortable 602](#_Toc491433629)

[3.2.5.185.1.1.19 StaticName 602](#_Toc491433630)

[3.2.5.185.1.1.20 Title 603](#_Toc491433631)

[3.2.5.185.1.1.21 TypeAsString 603](#_Toc491433632)

[3.2.5.185.1.1.22 TypeDisplayName 603](#_Toc491433633)

[3.2.5.185.1.1.23 TypeShortDescription 603](#_Toc491433634)

[3.2.5.185.1.1.24 ValidationFormula 604](#_Toc491433635)

[3.2.5.185.1.1.25 ValidationMessage 604](#_Toc491433636)

[3.2.5.185.1.1.26 JSLink 604](#_Toc491433637)

[3.2.5.185.1.1.27 EntityPropertyName 604](#_Toc491433638)

[3.2.5.185.1.1.28 Indexed 604](#_Toc491433639)

[3.2.5.185.1.1.29 SchemaXmlWithResourceTokens 604](#_Toc491433640)

[3.2.5.185.1.1.30 AutoIndexed 604](#_Toc491433641)

[3.2.5.185.1.2 ObjectPath Properties 605](#_Toc491433642)

[3.2.5.185.1.2.1 DescriptionResource 605](#_Toc491433643)

[3.2.5.185.1.2.2 TitleResource 605](#_Toc491433644)

[3.2.5.185.2 Methods 605](#_Toc491433645)

[3.2.5.185.2.1 Scalar Methods 605](#_Toc491433646)

[3.2.5.185.2.1.1 DeleteObject 605](#_Toc491433647)

[3.2.5.185.2.1.2 SetShowInDisplayForm 605](#_Toc491433648)

[3.2.5.185.2.1.3 SetShowInEditForm 605](#_Toc491433649)

[3.2.5.185.2.1.4 SetShowInNewForm 606](#_Toc491433650)

[3.2.5.185.2.1.5 Update 606](#_Toc491433651)

[3.2.5.185.2.1.6 UpdateAndPushChanges 606](#_Toc491433652)

[3.2.5.185.2.1.7 ValidateSetValue 607](#_Toc491433653)

[3.2.5.185.2.2 ObjectPath Methods 607](#_Toc491433654)

[3.2.5.186 Microsoft.SharePoint.Client.FieldGeolocationValue 607](#_Toc491433655)

[3.2.5.186.1 Properties 607](#_Toc491433656)

[3.2.5.186.1.1 Scalar Properties 607](#_Toc491433657)

[3.2.5.186.1.1.1 Altitude 607](#_Toc491433658)

[3.2.5.186.1.1.2 Latitude 607](#_Toc491433659)

[3.2.5.186.1.1.3 Longitude 608](#_Toc491433660)

[3.2.5.186.1.1.4 Measure 608](#_Toc491433661)

[3.2.5.186.1.2 ObjectPath Properties 608](#_Toc491433662)

[3.2.5.187 Microsoft.SharePoint.Client.Sharing.DocumentSharingManager 608](#_Toc491433663)

[3.2.5.187.1 Properties 608](#_Toc491433664)

[3.2.5.187.1.1 Scalar Properties 608](#_Toc491433665)

[3.2.5.187.1.2 ObjectPath Properties 608](#_Toc491433666)

[3.2.5.187.2 Methods 608](#_Toc491433667)

[3.2.5.187.2.1 Scalar Methods 608](#_Toc491433668)

[3.2.5.187.2.1.1 UpdateDocumentSharingInfo 608](#_Toc491433669)

[3.2.5.187.2.1.2 IsDocumentSharingEnabled 609](#_Toc491433670)

[3.2.5.187.2.1.3 CanMemberShare 610](#_Toc491433671)

[3.2.5.187.2.1.4 RemoveItemsFromSharedWithMeView 610](#_Toc491433672)

[3.2.5.187.2.2 ObjectPath Methods 610](#_Toc491433673)

[3.2.5.187.2.2.1 GetRoleDefinition 610](#_Toc491433674)

[3.2.5.188 Microsoft.SharePoint.Client.Sharing.Role 610](#_Toc491433675)

[3.2.5.188.1 Field Values 611](#_Toc491433676)

[3.2.5.188.1.1 None 611](#_Toc491433677)

[3.2.5.188.1.2 View 611](#_Toc491433678)

[3.2.5.188.1.3 Edit 611](#_Toc491433679)

[3.2.5.188.1.4 Owner 611](#_Toc491433680)

[3.2.5.189 Microsoft.SharePoint.Client.Sharing.UserRoleAssignment 611](#_Toc491433681)

[3.2.5.189.1 Properties 611](#_Toc491433682)

[3.2.5.189.1.1 Scalar Properties 611](#_Toc491433683)

[3.2.5.189.1.1.1 Role 611](#_Toc491433684)

[3.2.5.189.1.1.2 UserId 611](#_Toc491433685)

[3.2.5.189.1.2 ObjectPath Properties 612](#_Toc491433686)

[3.2.5.190 Microsoft.SharePoint.Client.Sharing.UserSharingResult 612](#_Toc491433687)

[3.2.5.190.1 Properties 612](#_Toc491433688)

[3.2.5.190.1.1 Scalar Properties 612](#_Toc491433689)

[3.2.5.190.1.1.1 AllowedRoles 612](#_Toc491433690)

[3.2.5.190.1.1.2 CurrentRole 612](#_Toc491433691)

[3.2.5.190.1.1.3 IsUserKnown 612](#_Toc491433692)

[3.2.5.190.1.1.4 Status 612](#_Toc491433693)

[3.2.5.190.1.1.5 User 612](#_Toc491433694)

[3.2.5.190.1.1.6 Message 613](#_Toc491433695)

[3.2.5.190.1.1.7 DisplayName 613](#_Toc491433696)

[3.2.5.190.1.1.8 Email 613](#_Toc491433697)

[3.2.5.190.1.1.9 InvitationLink 613](#_Toc491433698)

[3.2.5.190.1.2 ObjectPath Properties 613](#_Toc491433699)

[3.2.5.191 Microsoft.SharePoint.Client.WebInfoCreationInformation 613](#_Toc491433700)

[3.2.5.191.1 Properties 613](#_Toc491433701)

[3.2.5.191.1.1 Scalar Properties 613](#_Toc491433702)

[3.2.5.191.1.1.1 Description 613](#_Toc491433703)

[3.2.5.191.1.1.2 Language 613](#_Toc491433704)

[3.2.5.191.1.1.3 Title 614](#_Toc491433705)

[3.2.5.191.1.1.4 Url 614](#_Toc491433706)

[3.2.5.191.1.1.5 UseUniquePermissions 614](#_Toc491433707)

[3.2.5.191.1.1.6 WebTemplate 614](#_Toc491433708)

[3.2.5.191.1.2 ObjectPath Properties 614](#_Toc491433709)

[3.2.5.192 Microsoft.SharePoint.Client.WebInformation 614](#_Toc491433710)

[3.2.5.192.1 Properties 614](#_Toc491433711)

[3.2.5.192.1.1 Scalar Properties 614](#_Toc491433712)

[3.2.5.192.1.1.1 Created 614](#_Toc491433713)

[3.2.5.192.1.1.2 Description 615](#_Toc491433714)

[3.2.5.192.1.1.3 Id 615](#_Toc491433715)

[3.2.5.192.1.1.4 Language 615](#_Toc491433716)

[3.2.5.192.1.1.5 LastItemModifiedDate 615](#_Toc491433717)

[3.2.5.192.1.1.6 Title 615](#_Toc491433718)

[3.2.5.192.1.1.7 WebTemplateId 615](#_Toc491433719)

[3.2.5.192.1.1.8 ServerRelativeUrl 615](#_Toc491433720)

[3.2.5.192.1.1.9 Configuration 616](#_Toc491433721)

[3.2.5.192.1.1.10 WebTemplate 616](#_Toc491433722)

[3.2.5.192.1.2 ObjectPath Properties 616](#_Toc491433723)

[3.2.5.192.2 Methods 616](#_Toc491433724)

[3.2.5.192.2.1 Scalar Methods 616](#_Toc491433725)

[3.2.5.192.2.2 ObjectPath Methods 616](#_Toc491433726)

[3.2.5.193 Microsoft.SharePoint.Client.WebInformationCollection 616](#_Toc491433727)

[3.2.5.193.1 Properties 616](#_Toc491433728)

[3.2.5.193.1.1 Scalar Properties 616](#_Toc491433729)

[3.2.5.193.1.2 ObjectPath Properties 616](#_Toc491433730)

[3.2.5.193.2 Methods 616](#_Toc491433731)

[3.2.5.193.2.1 Scalar Methods 616](#_Toc491433732)

[3.2.5.193.2.2 ObjectPath Methods 617](#_Toc491433733)

[3.2.5.193.2.2.1 Add 617](#_Toc491433734)

[3.2.5.193.2.2.2 GetById 617](#_Toc491433735)

[3.2.5.194 Microsoft.SharePoint.Client.XmlSchemaFieldCreationInformation 617](#_Toc491433736)

[3.2.5.194.1 Properties 617](#_Toc491433737)

[3.2.5.194.1.1 Scalar Properties 617](#_Toc491433738)

[3.2.5.194.1.1.1 Options 617](#_Toc491433739)

[3.2.5.194.1.1.2 SchemaXml 618](#_Toc491433740)

[3.2.5.194.1.2 ObjectPath Properties 618](#_Toc491433741)

[3.2.5.195 Microsoft.SharePoint.Client.ListItemEntityCollection 618](#_Toc491433742)

[3.2.5.195.1 Properties 618](#_Toc491433743)

[3.2.5.195.1.1 Scalar Properties 618](#_Toc491433744)

[3.2.5.195.1.2 ObjectPath Properties 618](#_Toc491433745)

[3.2.5.195.2 Methods 618](#_Toc491433746)

[3.2.5.195.2.1 Scalar Methods 618](#_Toc491433747)

[3.2.5.195.2.2 ObjectPath Methods 618](#_Toc491433748)

[3.2.5.195.2.2.1 GetById 618](#_Toc491433749)

[3.2.5.196 Microsoft.SharePoint.Client.ThemeInfo 618](#_Toc491433750)

[3.2.5.196.1 Properties 619](#_Toc491433751)

[3.2.5.196.1.1 Scalar Properties 619](#_Toc491433752)

[3.2.5.196.1.1.1 AccessibleDescription 619](#_Toc491433753)

[3.2.5.196.1.1.2 ThemeBackgroundImageUri 619](#_Toc491433754)

[3.2.5.196.1.2 ObjectPath Properties 619](#_Toc491433755)

[3.2.5.196.2 Methods 619](#_Toc491433756)

[3.2.5.196.2.1 Scalar Methods 619](#_Toc491433757)

[3.2.5.196.2.1.1 GetThemeFontByName 619](#_Toc491433758)

[3.2.5.196.2.1.2 GetThemeShadeByName 619](#_Toc491433759)

[3.2.5.196.2.2 ObjectPath Methods 620](#_Toc491433760)

[3.2.5.197 Microsoft.SharePoint.Client.InformationRightsManagementSettings 620](#_Toc491433761)

[3.2.5.197.1 Properties 620](#_Toc491433762)

[3.2.5.197.1.1 Scalar Properties 620](#_Toc491433763)

[3.2.5.197.1.1.1 AllowPrint 620](#_Toc491433764)

[3.2.5.197.1.1.2 AllowScript 620](#_Toc491433765)

[3.2.5.197.1.1.3 AllowWriteCopy 620](#_Toc491433766)

[3.2.5.197.1.1.4 DocumentAccessExpireDays 620](#_Toc491433767)

[3.2.5.197.1.1.5 DocumentLibraryProtectionExpireDate 620](#_Toc491433768)

[3.2.5.197.1.1.6 EnableDocumentAccessExpire 621](#_Toc491433769)

[3.2.5.197.1.1.7 EnableGroupProtection 621](#_Toc491433770)

[3.2.5.197.1.1.8 EnableLicenseCacheExpire 621](#_Toc491433771)

[3.2.5.197.1.1.9 GroupName 621](#_Toc491433772)

[3.2.5.197.1.1.10 LicenseCacheExpireDays 621](#_Toc491433773)

[3.2.5.197.1.1.11 PolicyDescription 621](#_Toc491433774)

[3.2.5.197.1.1.12 PolicyTitle 621](#_Toc491433775)

[3.2.5.197.1.1.13 EnableDocumentBrowserPublishingView 621](#_Toc491433776)

[3.2.5.197.1.1.14 DisableDocumentBrowserView 622](#_Toc491433777)

[3.2.5.197.1.2 ObjectPath Properties 622](#_Toc491433778)

[3.2.5.197.2 Methods 622](#_Toc491433779)

[3.2.5.197.2.1 Scalar Methods 622](#_Toc491433780)

[3.2.5.197.2.1.1 Reset 622](#_Toc491433781)

[3.2.5.197.2.1.2 Update 622](#_Toc491433782)

[3.2.5.197.2.2 ObjectPath Methods 622](#_Toc491433783)

[3.2.5.198 Microsoft.BusinessData.MetadataModel.Collections.EntityInstanceCollection 622](#_Toc491433784)

[3.2.5.198.1 Properties 622](#_Toc491433785)

[3.2.5.198.1.1 Scalar Properties 622](#_Toc491433786)

[3.2.5.198.1.2 ObjectPath Properties 622](#_Toc491433787)

[3.2.5.198.2 Methods 623](#_Toc491433788)

[3.2.5.198.2.1 Scalar Methods 623](#_Toc491433789)

[3.2.5.198.2.2 ObjectPath Methods 623](#_Toc491433790)

[3.2.5.199 Microsoft.BusinessData.MetadataModel.Collections.FilterCollection 623](#_Toc491433791)

[3.2.5.199.1 Properties 623](#_Toc491433792)

[3.2.5.199.1.1 Scalar Properties 623](#_Toc491433793)

[3.2.5.199.1.2 ObjectPath Properties 623](#_Toc491433794)

[3.2.5.199.2 Methods 623](#_Toc491433795)

[3.2.5.199.2.1 Scalar Methods 623](#_Toc491433796)

[3.2.5.199.2.1.1 SetFilterValue 623](#_Toc491433797)

[3.2.5.199.2.2 ObjectPath Methods 624](#_Toc491433798)

[3.2.5.200 Microsoft.SharePoint.Client.ContextWebInformation 624](#_Toc491433799)

[3.2.5.200.1 Properties 624](#_Toc491433800)

[3.2.5.200.1.1 Scalar Properties 624](#_Toc491433801)

[3.2.5.200.1.1.1 FormDigestTimeoutSeconds 624](#_Toc491433802)

[3.2.5.200.1.1.2 FormDigestValue 624](#_Toc491433803)

[3.2.5.200.1.1.3 LibraryVersion 624](#_Toc491433804)

[3.2.5.200.1.1.4 SiteFullUrl 625](#_Toc491433805)

[3.2.5.200.1.1.5 SupportedSchemaVersions 625](#_Toc491433806)

[3.2.5.200.1.1.6 WebFullUrl 625](#_Toc491433807)

[3.2.5.200.1.2 ObjectPath Properties 625](#_Toc491433808)

[3.2.5.201 Microsoft.SharePoint.Client.EventReceiverDefinition 625](#_Toc491433809)

[3.2.5.201.1 Properties 625](#_Toc491433810)

[3.2.5.201.1.1 Scalar Properties 625](#_Toc491433811)

[3.2.5.201.1.1.1 EventType 625](#_Toc491433812)

[3.2.5.201.1.1.2 ReceiverAssembly 625](#_Toc491433813)

[3.2.5.201.1.1.3 ReceiverClass 625](#_Toc491433814)

[3.2.5.201.1.1.4 ReceiverName 626](#_Toc491433815)

[3.2.5.201.1.1.5 ReceiverUrl 626](#_Toc491433816)

[3.2.5.201.1.1.6 SequenceNumber 626](#_Toc491433817)

[3.2.5.201.1.1.7 Synchronization 626](#_Toc491433818)

[3.2.5.201.1.1.8 ReceiverId 626](#_Toc491433819)

[3.2.5.201.1.2 ObjectPath Properties 626](#_Toc491433820)

[3.2.5.201.2 Methods 626](#_Toc491433821)

[3.2.5.201.2.1 Scalar Methods 626](#_Toc491433822)

[3.2.5.201.2.1.1 DeleteObject 626](#_Toc491433823)

[3.2.5.201.2.1.2 Update 627](#_Toc491433824)

[3.2.5.201.2.2 ObjectPath Methods 627](#_Toc491433825)

[3.2.5.202 Microsoft.SharePoint.Client.EventReceiverDefinitionCollection 627](#_Toc491433826)

[3.2.5.202.1 Properties 627](#_Toc491433827)

[3.2.5.202.1.1 Scalar Properties 627](#_Toc491433828)

[3.2.5.202.1.2 ObjectPath Properties 627](#_Toc491433829)

[3.2.5.202.2 Methods 627](#_Toc491433830)

[3.2.5.202.2.1 Scalar Methods 627](#_Toc491433831)

[3.2.5.202.2.2 ObjectPath Methods 627](#_Toc491433832)

[3.2.5.202.2.2.1 Add 627](#_Toc491433833)

[3.2.5.202.2.2.2 GetById 627](#_Toc491433834)

[3.2.5.203 Microsoft.SharePoint.Client.EventReceiverDefinitionCreationInformation 628](#_Toc491433835)

[3.2.5.203.1 Properties 628](#_Toc491433836)

[3.2.5.203.1.1 Scalar Properties 628](#_Toc491433837)

[3.2.5.203.1.1.1 EventType 628](#_Toc491433838)

[3.2.5.203.1.1.2 ReceiverAssembly 628](#_Toc491433839)

[3.2.5.203.1.1.3 ReceiverClass 628](#_Toc491433840)

[3.2.5.203.1.1.4 ReceiverName 628](#_Toc491433841)

[3.2.5.203.1.1.5 ReceiverUrl 628](#_Toc491433842)

[3.2.5.203.1.1.6 SequenceNumber 629](#_Toc491433843)

[3.2.5.203.1.1.7 Synchronization 629](#_Toc491433844)

[3.2.5.203.1.2 ObjectPath Properties 629](#_Toc491433845)

[3.2.5.204 Microsoft.SharePoint.Client.EventReceiverSynchronization 629](#_Toc491433846)

[3.2.5.204.1 Field Values 629](#_Toc491433847)

[3.2.5.204.1.1 DefaultSynchronization 629](#_Toc491433848)

[3.2.5.204.1.2 Synchronous 629](#_Toc491433849)

[3.2.5.204.1.3 Asynchronous 629](#_Toc491433850)

[3.2.5.205 Microsoft.SharePoint.Client.EventReceiverType 629](#_Toc491433851)

[3.2.5.205.1 Field Values 630](#_Toc491433852)

[3.2.5.205.1.1 InvalidReceiver 630](#_Toc491433853)

[3.2.5.205.1.2 ItemAdding 630](#_Toc491433854)

[3.2.5.205.1.3 ItemUpdating 630](#_Toc491433855)

[3.2.5.205.1.4 ItemDeleting 630](#_Toc491433856)

[3.2.5.205.1.5 ItemCheckingIn 630](#_Toc491433857)

[3.2.5.205.1.6 ItemCheckingOut 630](#_Toc491433858)

[3.2.5.205.1.7 ItemUncheckingOut 630](#_Toc491433859)

[3.2.5.205.1.8 ItemAttachmentAdding 630](#_Toc491433860)

[3.2.5.205.1.9 ItemAttachmentDeleting 630](#_Toc491433861)

[3.2.5.205.1.10 ItemFileMoving 630](#_Toc491433862)

[3.2.5.205.1.11 ItemVersionDeleting 631](#_Toc491433863)

[3.2.5.205.1.12 FieldAdding 631](#_Toc491433864)

[3.2.5.205.1.13 FieldUpdating 631](#_Toc491433865)

[3.2.5.205.1.14 FieldDeleting 631](#_Toc491433866)

[3.2.5.205.1.15 ListAdding 631](#_Toc491433867)

[3.2.5.205.1.16 ListDeleting 631](#_Toc491433868)

[3.2.5.205.1.17 SiteDeleting 631](#_Toc491433869)

[3.2.5.205.1.18 WebDeleting 631](#_Toc491433870)

[3.2.5.205.1.19 WebMoving 631](#_Toc491433871)

[3.2.5.205.1.20 WebAdding 631](#_Toc491433872)

[3.2.5.205.1.21 GroupAdding 632](#_Toc491433873)

[3.2.5.205.1.22 GroupUpdating 632](#_Toc491433874)

[3.2.5.205.1.23 GroupDeleting 632](#_Toc491433875)

[3.2.5.205.1.24 GroupUserAdding 632](#_Toc491433876)

[3.2.5.205.1.25 GroupUserDeleting 632](#_Toc491433877)

[3.2.5.205.1.26 RoleDefinitionAdding 632](#_Toc491433878)

[3.2.5.205.1.27 RoleDefinitionUpdating 632](#_Toc491433879)

[3.2.5.205.1.28 RoleDefinitionDeleting 632](#_Toc491433880)

[3.2.5.205.1.29 RoleAssignmentAdding 632](#_Toc491433881)

[3.2.5.205.1.30 RoleAssignmentDeleting 632](#_Toc491433882)

[3.2.5.205.1.31 InheritanceBreaking 633](#_Toc491433883)

[3.2.5.205.1.32 WorkflowStarting 633](#_Toc491433884)

[3.2.5.205.1.33 ItemAdded 633](#_Toc491433885)

[3.2.5.205.1.34 ItemUpdated 633](#_Toc491433886)

[3.2.5.205.1.35 ItemDeleted 633](#_Toc491433887)

[3.2.5.205.1.36 ItemCheckedIn 633](#_Toc491433888)

[3.2.5.205.1.37 ItemCheckedOut 633](#_Toc491433889)

[3.2.5.205.1.38 ItemUncheckedOut 633](#_Toc491433890)

[3.2.5.205.1.39 ItemAttachmentAdded 633](#_Toc491433891)

[3.2.5.205.1.40 ItemAttachmentDeleted 633](#_Toc491433892)

[3.2.5.205.1.41 ItemFileMoved 634](#_Toc491433893)

[3.2.5.205.1.42 ItemFileConverted 634](#_Toc491433894)

[3.2.5.205.1.43 ItemVersionDeleted 634](#_Toc491433895)

[3.2.5.205.1.44 FieldAdded 634](#_Toc491433896)

[3.2.5.205.1.45 FieldUpdated 634](#_Toc491433897)

[3.2.5.205.1.46 FieldDeleted 634](#_Toc491433898)

[3.2.5.205.1.47 ListAdded 634](#_Toc491433899)

[3.2.5.205.1.48 ListDeleted 634](#_Toc491433900)

[3.2.5.205.1.49 SiteDeleted 634](#_Toc491433901)

[3.2.5.205.1.50 WebDeleted 634](#_Toc491433902)

[3.2.5.205.1.51 WebMoved 635](#_Toc491433903)

[3.2.5.205.1.52 WebProvisioned 635](#_Toc491433904)

[3.2.5.205.1.53 GroupAdded 635](#_Toc491433905)

[3.2.5.205.1.54 GroupUpdated 635](#_Toc491433906)

[3.2.5.205.1.55 GroupDeleted 635](#_Toc491433907)

[3.2.5.205.1.56 GroupUserAdded 635](#_Toc491433908)

[3.2.5.205.1.57 GroupUserDeleted 635](#_Toc491433909)

[3.2.5.205.1.58 RoleDefinitionAdded 635](#_Toc491433910)

[3.2.5.205.1.59 RoleDefinitionUpdated 635](#_Toc491433911)

[3.2.5.205.1.60 RoleDefinitionDeleted 635](#_Toc491433912)

[3.2.5.205.1.61 RoleAssignmentAdded 636](#_Toc491433913)

[3.2.5.205.1.62 RoleAssignmentDeleted 636](#_Toc491433914)

[3.2.5.205.1.63 InheritanceBroken 636](#_Toc491433915)

[3.2.5.205.1.64 WorkflowStarted 636](#_Toc491433916)

[3.2.5.205.1.65 WorkflowPostponed 636](#_Toc491433917)

[3.2.5.205.1.66 WorkflowCompleted 636](#_Toc491433918)

[3.2.5.205.1.67 EntityInstanceAdded 636](#_Toc491433919)

[3.2.5.205.1.68 EntityInstanceUpdated 636](#_Toc491433920)

[3.2.5.205.1.69 EntityInstanceDeleted 636](#_Toc491433921)

[3.2.5.205.1.70 AppInstalled 636](#_Toc491433922)

[3.2.5.205.1.71 AppUpgraded 637](#_Toc491433923)

[3.2.5.205.1.72 AppUninstalling 637](#_Toc491433924)

[3.2.5.205.1.73 EmailReceived 637](#_Toc491433925)

[3.2.5.205.1.74 ContextEvent 637](#_Toc491433926)

[3.2.5.205.1.75 InheritanceResetting 637](#_Toc491433927)

[3.2.5.205.1.76 InheritanceReset 637](#_Toc491433928)

[3.2.5.205.1.77 WebRestored 637](#_Toc491433929)

[3.2.5.206 Microsoft.SharePoint.Client.RelatedItem 637](#_Toc491433930)

[3.2.5.206.1 Properties 637](#_Toc491433931)

[3.2.5.206.1.1 Scalar Properties 637](#_Toc491433932)

[3.2.5.206.1.1.1 IconUrl 638](#_Toc491433933)

[3.2.5.206.1.1.2 ItemId 638](#_Toc491433934)

[3.2.5.206.1.1.3 ListId 638](#_Toc491433935)

[3.2.5.206.1.1.4 Title 638](#_Toc491433936)

[3.2.5.206.1.1.5 Url 638](#_Toc491433937)

[3.2.5.206.1.1.6 WebId 638](#_Toc491433938)

[3.2.5.206.1.2 ObjectPath Properties 638](#_Toc491433939)

[3.2.5.207 Microsoft.SharePoint.Client.RelatedItemManager 639](#_Toc491433940)

[3.2.5.207.1 Properties 639](#_Toc491433941)

[3.2.5.207.1.1 Scalar Properties 639](#_Toc491433942)

[3.2.5.207.1.2 ObjectPath Properties 639](#_Toc491433943)

[3.2.5.207.2 Methods 639](#_Toc491433944)

[3.2.5.207.2.1 Scalar Methods 639](#_Toc491433945)

[3.2.5.207.2.1.1 AddSingleLink 639](#_Toc491433946)

[3.2.5.207.2.1.2 DeleteSingleLink 640](#_Toc491433947)

[3.2.5.207.2.1.3 GetPageOneRelatedItems 640](#_Toc491433948)

[3.2.5.207.2.1.4 GetRelatedItems 641](#_Toc491433949)

[3.2.5.207.2.1.5 AddSingleLinkFromUrl 641](#_Toc491433950)

[3.2.5.207.2.1.6 AddSingleLinkToUrl 641](#_Toc491433951)

[3.2.5.207.2.2 ObjectPath Methods 642](#_Toc491433952)

[3.2.5.208 Microsoft.SharePoint.Client.UpgradeType 642](#_Toc491433953)

[3.2.5.208.1 Field Values 642](#_Toc491433954)

[3.2.5.208.1.1 BuildUpgrade 642](#_Toc491433955)

[3.2.5.208.1.2 VersionUpgrade 642](#_Toc491433956)

[3.2.5.209 Microsoft.SharePoint.Client.Utilities.WikiPageCreationInformation 642](#_Toc491433957)

[3.2.5.209.1 Properties 642](#_Toc491433958)

[3.2.5.209.1.1 Scalar Properties 642](#_Toc491433959)

[3.2.5.209.1.1.1 ServerRelativeUrl 643](#_Toc491433960)

[3.2.5.209.1.1.2 WikiHtmlContent 643](#_Toc491433961)

[3.2.5.209.1.2 ObjectPath Properties 643](#_Toc491433962)

[3.2.5.210 Microsoft.BusinessData.MetadataModel.AppBdcCatalog 643](#_Toc491433963)

[3.2.5.210.1 Properties 643](#_Toc491433964)

[3.2.5.210.1.1 Scalar Properties 643](#_Toc491433965)

[3.2.5.210.1.2 ObjectPath Properties 643](#_Toc491433966)

[3.2.5.210.2 Methods 643](#_Toc491433967)

[3.2.5.210.2.1 Scalar Methods 643](#_Toc491433968)

[3.2.5.210.2.1.1 GetConnectionId 643](#_Toc491433969)

[3.2.5.210.2.1.2 GetLobSystemInstanceProperty 644](#_Toc491433970)

[3.2.5.210.2.1.3 GetLobSystemProperty 645](#_Toc491433971)

[3.2.5.210.2.1.4 GetPermissibleConnections 645](#_Toc491433972)

[3.2.5.210.2.1.5 SetConnectionId 646](#_Toc491433973)

[3.2.5.210.2.1.6 SetLobSystemInstanceProperty 646](#_Toc491433974)

[3.2.5.210.2.1.7 SetLobSystemProperty 647](#_Toc491433975)

[3.2.5.210.2.2 ObjectPath Methods 648](#_Toc491433976)

[3.2.5.210.2.2.1 GetEntity 648](#_Toc491433977)

[3.2.5.211 Microsoft.SharePoint.Client.SiteHealth.SiteHealthSummary 649](#_Toc491433978)

[3.2.5.211.1 Properties 649](#_Toc491433979)

[3.2.5.211.1.1 Scalar Properties 649](#_Toc491433980)

[3.2.5.211.1.1.1 FailedErrorCount 649](#_Toc491433981)

[3.2.5.211.1.1.2 FailedWarningCount 649](#_Toc491433982)

[3.2.5.211.1.1.3 PassedCount 649](#_Toc491433983)

[3.2.5.211.1.1.4 Results 649](#_Toc491433984)

[3.2.5.211.1.2 ObjectPath Properties 649](#_Toc491433985)

[3.2.5.211.2 Methods 649](#_Toc491433986)

[3.2.5.211.2.1 Scalar Methods 650](#_Toc491433987)

[3.2.5.211.2.2 ObjectPath Methods 650](#_Toc491433988)

[3.2.5.212 Microsoft.SharePoint.Client.Utilities.EmailProperties 650](#_Toc491433989)

[3.2.5.212.1 Properties 650](#_Toc491433990)

[3.2.5.212.1.1 Scalar Properties 650](#_Toc491433991)

[3.2.5.212.1.1.1 AdditionalHeaders 650](#_Toc491433992)

[3.2.5.212.1.1.2 BCC 650](#_Toc491433993)

[3.2.5.212.1.1.3 Body 650](#_Toc491433994)

[3.2.5.212.1.1.4 CC 650](#_Toc491433995)

[3.2.5.212.1.1.5 From 650](#_Toc491433996)

[3.2.5.212.1.1.6 Subject 651](#_Toc491433997)

[3.2.5.212.1.1.7 To 651](#_Toc491433998)

[3.2.5.212.1.2 ObjectPath Properties 651](#_Toc491433999)

[3.2.5.213 Microsoft.BusinessData.MetadataModel.Filter 651](#_Toc491434000)

[3.2.5.213.1 Properties 651](#_Toc491434001)

[3.2.5.213.1.1 Scalar Properties 651](#_Toc491434002)

[3.2.5.213.1.1.1 DefaultDisplayName 651](#_Toc491434003)

[3.2.5.213.1.1.2 FilterField 651](#_Toc491434004)

[3.2.5.213.1.1.3 FilterType 651](#_Toc491434005)

[3.2.5.213.1.1.4 LocalizedDisplayName 652](#_Toc491434006)

[3.2.5.213.1.1.5 Name 652](#_Toc491434007)

[3.2.5.213.1.1.6 ValueCount 652](#_Toc491434008)

[3.2.5.213.1.2 ObjectPath Properties 652](#_Toc491434009)

[3.2.5.213.2 Methods 652](#_Toc491434010)

[3.2.5.213.2.1 Scalar Methods 652](#_Toc491434011)

[3.2.5.213.2.2 ObjectPath Methods 652](#_Toc491434012)

[3.2.5.214 Microsoft.BusinessData.MetadataModel.MethodExecutionResult 652](#_Toc491434013)

[3.2.5.214.1 Properties 653](#_Toc491434014)

[3.2.5.214.1.1 Scalar Properties 653](#_Toc491434015)

[3.2.5.214.1.2 ObjectPath Properties 653](#_Toc491434016)

[3.2.5.214.1.2.1 ReturnParameterCollection 653](#_Toc491434017)

[3.2.5.214.2 Methods 653](#_Toc491434018)

[3.2.5.214.2.1 Scalar Methods 653](#_Toc491434019)

[3.2.5.214.2.2 ObjectPath Methods 653](#_Toc491434020)

[3.2.5.215 Microsoft.BusinessData.MetadataModel.ReturnParameterCollection 653](#_Toc491434021)

[3.2.5.215.1 Properties 653](#_Toc491434022)

[3.2.5.215.1.1 Scalar Properties 653](#_Toc491434023)

[3.2.5.215.1.2 ObjectPath Properties 653](#_Toc491434024)

[3.2.5.215.2 Methods 653](#_Toc491434025)

[3.2.5.215.2.1 Scalar Methods 653](#_Toc491434026)

[3.2.5.215.2.2 ObjectPath Methods 653](#_Toc491434027)

[3.2.5.216 Microsoft.SharePoint.Client.SiteHealth.SiteHealthResult 654](#_Toc491434028)

[3.2.5.216.1 Properties 654](#_Toc491434029)

[3.2.5.216.1.1 Scalar Properties 654](#_Toc491434030)

[3.2.5.216.1.1.1 Status 654](#_Toc491434031)

[3.2.5.216.1.1.2 TimeStamp 654](#_Toc491434032)

[3.2.5.216.1.1.3 MessageAsText 654](#_Toc491434033)

[3.2.5.216.1.1.4 RuleHelpLink 654](#_Toc491434034)

[3.2.5.216.1.1.5 RuleId 654](#_Toc491434035)

[3.2.5.216.1.1.6 RuleIsRepairable 654](#_Toc491434036)

[3.2.5.216.1.1.7 RuleName 655](#_Toc491434037)

[3.2.5.216.1.2 ObjectPath Properties 655](#_Toc491434038)

[3.2.5.217 Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerQueryParameters 655](#_Toc491434039)

[3.2.5.217.1 Properties 655](#_Toc491434040)

[3.2.5.217.1.1 Scalar Properties 655](#_Toc491434041)

[3.2.5.217.1.1.1 AllowEmailAddresses 655](#_Toc491434042)

[3.2.5.217.1.1.2 AllowMultipleEntities 655](#_Toc491434043)

[3.2.5.217.1.1.3 AllUrlZones 655](#_Toc491434044)

[3.2.5.217.1.1.4 EnabledClaimProviders 655](#_Toc491434045)

[3.2.5.217.1.1.5 MaximumEntitySuggestions 655](#_Toc491434046)

[3.2.5.217.1.1.6 PrincipalSource 656](#_Toc491434047)

[3.2.5.217.1.1.7 PrincipalType 656](#_Toc491434048)

[3.2.5.217.1.1.8 QueryString 656](#_Toc491434049)

[3.2.5.217.1.1.9 Required 656](#_Toc491434050)

[3.2.5.217.1.1.10 SharePointGroupID 656](#_Toc491434051)

[3.2.5.217.1.1.11 UrlZone 656](#_Toc491434052)

[3.2.5.217.1.1.12 UrlZoneSpecified 656](#_Toc491434053)

[3.2.5.217.1.1.13 WebApplicationID 657](#_Toc491434054)

[3.2.5.217.1.1.14 ForceClaims 657](#_Toc491434055)

[3.2.5.217.1.1.15 AllowOnlyEmailAddresses 657](#_Toc491434056)

[3.2.5.217.1.2 ObjectPath Properties 657](#_Toc491434057)

[3.2.5.217.1.2.1 Web 657](#_Toc491434058)

[3.2.5.218 Microsoft.SharePoint.Client.DateTimeFieldFriendlyFormatType 657](#_Toc491434059)

[3.2.5.218.1 Field Values 657](#_Toc491434060)

[3.2.5.218.1.1 Unspecified 657](#_Toc491434061)

[3.2.5.218.1.2 Disabled 657](#_Toc491434062)

[3.2.5.218.1.3 Relative 658](#_Toc491434063)

[3.2.5.219 Microsoft.SharePoint.Client.RegionalSettings 658](#_Toc491434064)

[3.2.5.219.1 Properties 658](#_Toc491434065)

[3.2.5.219.1.1 Scalar Properties 658](#_Toc491434066)

[3.2.5.219.1.1.1 AdjustHijriDays 658](#_Toc491434067)

[3.2.5.219.1.1.2 AlternateCalendarType 658](#_Toc491434068)

[3.2.5.219.1.1.3 AM 659](#_Toc491434069)

[3.2.5.219.1.1.4 CalendarType 659](#_Toc491434070)

[3.2.5.219.1.1.5 Collation 659](#_Toc491434071)

[3.2.5.219.1.1.6 CollationLCID 659](#_Toc491434072)

[3.2.5.219.1.1.7 DateFormat 659](#_Toc491434073)

[3.2.5.219.1.1.8 DateSeparator 660](#_Toc491434074)

[3.2.5.219.1.1.9 DecimalSeparator 660](#_Toc491434075)

[3.2.5.219.1.1.10 DigitGrouping 660](#_Toc491434076)

[3.2.5.219.1.1.11 FirstDayOfWeek 660](#_Toc491434077)

[3.2.5.219.1.1.12 FirstWeekOfYear 661](#_Toc491434078)

[3.2.5.219.1.1.13 IsEastAsia 661](#_Toc491434079)

[3.2.5.219.1.1.14 IsRightToLeft 661](#_Toc491434080)

[3.2.5.219.1.1.15 IsUIRightToLeft 661](#_Toc491434081)

[3.2.5.219.1.1.16 LocaleId 661](#_Toc491434082)

[3.2.5.219.1.1.17 NegativeSign 661](#_Toc491434083)

[3.2.5.219.1.1.18 NegNumberMode 662](#_Toc491434084)

[3.2.5.219.1.1.19 PM 662](#_Toc491434085)

[3.2.5.219.1.1.20 PositiveSign 662](#_Toc491434086)

[3.2.5.219.1.1.21 ShowWeeks 662](#_Toc491434087)

[3.2.5.219.1.1.22 ThousandSeparator 662](#_Toc491434088)

[3.2.5.219.1.1.23 Time24 663](#_Toc491434089)

[3.2.5.219.1.1.24 TimeMarkerPosition 663](#_Toc491434090)

[3.2.5.219.1.1.25 TimeSeparator 663](#_Toc491434091)

[3.2.5.219.1.1.26 WorkDayEndHour 663](#_Toc491434092)

[3.2.5.219.1.1.27 WorkDays 664](#_Toc491434093)

[3.2.5.219.1.1.28 WorkDayStartHour 665](#_Toc491434094)

[3.2.5.219.1.1.29 ListSeparator 666](#_Toc491434095)

[3.2.5.219.1.2 ObjectPath Properties 666](#_Toc491434096)

[3.2.5.219.1.2.1 TimeZone 666](#_Toc491434097)

[3.2.5.219.1.2.2 TimeZones 666](#_Toc491434098)

[3.2.5.219.2 Methods 666](#_Toc491434099)

[3.2.5.219.2.1 Scalar Methods 666](#_Toc491434100)

[3.2.5.219.2.1.1 Update 666](#_Toc491434101)

[3.2.5.219.2.2 ObjectPath Methods 666](#_Toc491434102)

[3.2.5.220 Microsoft.SharePoint.Client.TimeZone 667](#_Toc491434103)

[3.2.5.220.1 Properties 667](#_Toc491434104)

[3.2.5.220.1.1 Scalar Properties 667](#_Toc491434105)

[3.2.5.220.1.1.1 Description 667](#_Toc491434106)

[3.2.5.220.1.1.2 Id 667](#_Toc491434107)

[3.2.5.220.1.1.3 Information 667](#_Toc491434108)

[3.2.5.220.1.2 ObjectPath Properties 667](#_Toc491434109)

[3.2.5.220.2 Methods 667](#_Toc491434110)

[3.2.5.220.2.1 Scalar Methods 667](#_Toc491434111)

[3.2.5.220.2.1.1 LocalTimeToUTC 667](#_Toc491434112)

[3.2.5.220.2.1.2 UTCToLocalTime 668](#_Toc491434113)

[3.2.5.220.2.2 ObjectPath Methods 668](#_Toc491434114)

[3.2.5.221 Microsoft.SharePoint.Client.TimeZoneCollection 668](#_Toc491434115)

[3.2.5.221.1 Properties 668](#_Toc491434116)

[3.2.5.221.1.1 Scalar Properties 668](#_Toc491434117)

[3.2.5.221.1.2 ObjectPath Properties 668](#_Toc491434118)

[3.2.5.221.2 Methods 668](#_Toc491434119)

[3.2.5.221.2.1 Scalar Methods 668](#_Toc491434120)

[3.2.5.221.2.2 ObjectPath Methods 668](#_Toc491434121)

[3.2.5.221.2.2.1 GetById 668](#_Toc491434122)

[3.2.5.222 Microsoft.SharePoint.Client.TimeZoneInformation 668](#_Toc491434123)

[3.2.5.222.1 Properties 669](#_Toc491434124)

[3.2.5.222.1.1 Scalar Properties 669](#_Toc491434125)

[3.2.5.222.1.1.1 Bias 669](#_Toc491434126)

[3.2.5.222.1.1.2 DaylightBias 669](#_Toc491434127)

[3.2.5.222.1.1.3 StandardBias 669](#_Toc491434128)

[3.2.5.222.1.2 ObjectPath Properties 669](#_Toc491434129)

[3.2.5.223 Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerWebServiceInterface 669](#_Toc491434130)

[3.2.5.223.1 Properties 669](#_Toc491434131)

[3.2.5.223.1.1 Scalar Properties 669](#_Toc491434132)

[3.2.5.223.1.2 ObjectPath Properties 669](#_Toc491434133)

[3.2.5.223.2 Methods 670](#_Toc491434134)

[3.2.5.223.2.1 Scalar Methods 670](#_Toc491434135)

[3.2.5.223.2.1.1 ClientPeoplePickerResolveUser 670](#_Toc491434136)

[3.2.5.223.2.1.2 ClientPeoplePickerSearchUser 670](#_Toc491434137)

[3.2.5.223.2.2 ObjectPath Methods 670](#_Toc491434138)

[3.2.5.224 Microsoft.SharePoint.ApplicationPages.PickerQuery.PeoplePickerWebServiceInterface 670](#_Toc491434139)

[3.2.5.224.1 Properties 670](#_Toc491434140)

[3.2.5.224.1.1 Scalar Properties 670](#_Toc491434141)

[3.2.5.224.1.2 ObjectPath Properties 670](#_Toc491434142)

[3.2.5.224.2 Methods 670](#_Toc491434143)

[3.2.5.224.2.1 Scalar Methods 670](#_Toc491434144)

[3.2.5.224.2.1.1 GetSearchResults 671](#_Toc491434145)

[3.2.5.224.2.1.2 GetSearchResultsByHierarchy 671](#_Toc491434146)

[3.2.5.224.2.2 ObjectPath Methods 671](#_Toc491434147)

[3.2.5.225 Microsoft.SharePoint.Client.RelatedFieldExtendedData 672](#_Toc491434148)

[3.2.5.225.1 Properties 672](#_Toc491434149)

[3.2.5.225.1.1 Scalar Properties 672](#_Toc491434150)

[3.2.5.225.1.1.1 FieldId 672](#_Toc491434151)

[3.2.5.225.1.1.2 ListId 672](#_Toc491434152)

[3.2.5.225.1.1.3 ListImageUrl 672](#_Toc491434153)

[3.2.5.225.1.1.4 ResolvedListTitle 672](#_Toc491434154)

[3.2.5.225.1.1.5 ToolTipDescription 672](#_Toc491434155)

[3.2.5.225.1.1.6 WebId 672](#_Toc491434156)

[3.2.5.225.1.2 ObjectPath Properties 673](#_Toc491434157)

[3.2.5.225.2 Methods 673](#_Toc491434158)

[3.2.5.225.2.1 Scalar Methods 673](#_Toc491434159)

[3.2.5.225.2.2 ObjectPath Methods 673](#_Toc491434160)

[3.2.5.226 Microsoft.SharePoint.Client.RelatedFieldExtendedDataCollection 673](#_Toc491434161)

[3.2.5.226.1 Properties 673](#_Toc491434162)

[3.2.5.226.1.1 Scalar Properties 673](#_Toc491434163)

[3.2.5.226.1.2 ObjectPath Properties 673](#_Toc491434164)

[3.2.5.226.2 Methods 673](#_Toc491434165)

[3.2.5.226.2.1 Scalar Methods 673](#_Toc491434166)

[3.2.5.226.2.2 ObjectPath Methods 673](#_Toc491434167)

[3.2.5.227 Microsoft.SharePoint.Client.ObjectSharingInformation 673](#_Toc491434168)

[3.2.5.227.1 Properties 673](#_Toc491434169)

[3.2.5.227.1.1 Scalar Properties 673](#_Toc491434170)

[3.2.5.227.1.1.1 IsSharedWithCurrentUser 674](#_Toc491434171)

[3.2.5.227.1.1.2 IsSharedWithGuest 674](#_Toc491434172)

[3.2.5.227.1.1.3 IsSharedWithMany 674](#_Toc491434173)

[3.2.5.227.1.1.4 IsSharedWithSecurityGroup 674](#_Toc491434174)

[3.2.5.227.1.1.5 AnonymousEditLink 674](#_Toc491434175)

[3.2.5.227.1.1.6 AnonymousViewLink 674](#_Toc491434176)

[3.2.5.227.1.1.7 CanManagePermissions 674](#_Toc491434177)

[3.2.5.227.1.1.8 HasPendingAccessRequests 675](#_Toc491434178)

[3.2.5.227.1.1.9 PendingAccessRequestsLink 675](#_Toc491434179)

[3.2.5.227.1.1.10 HasPermissionLevels 675](#_Toc491434180)

[3.2.5.227.1.1.11 CanBeShared 675](#_Toc491434181)

[3.2.5.227.1.1.12 CanBeUnshared 675](#_Toc491434182)

[3.2.5.227.1.1.13 SharingLinks 675](#_Toc491434183)

[3.2.5.227.1.1.14 IsFolder 675](#_Toc491434184)

[3.2.5.227.1.1.15 TotalFileCount 676](#_Toc491434185)

[3.2.5.227.1.2 ObjectPath Properties 676](#_Toc491434186)

[3.2.5.227.1.2.1 SharedWithUsersCollection 676](#_Toc491434187)

[3.2.5.227.2 Methods 676](#_Toc491434188)

[3.2.5.227.2.1 Scalar Methods 676](#_Toc491434189)

[3.2.5.227.2.1.1 CanCurrentUserShare 676](#_Toc491434190)

[3.2.5.227.2.1.2 CanCurrentUserShareRemote 676](#_Toc491434191)

[3.2.5.227.2.2 ObjectPath Methods 676](#_Toc491434192)

[3.2.5.227.2.2.1 GetObjectSharingInformation 676](#_Toc491434193)

[3.2.5.227.2.2.2 GetListItemSharingInformation 677](#_Toc491434194)

[3.2.5.227.2.2.3 GetSharedWithUsers 678](#_Toc491434195)

[3.2.5.227.2.2.4 GetWebSharingInformation 678](#_Toc491434196)

[3.2.5.227.2.2.5 GetObjectSharingInformation2 679](#_Toc491434197)

[3.2.5.227.2.2.6 GetObjectSharingInformationByUrl 680](#_Toc491434198)

[3.2.5.228 Microsoft.SharePoint.Client.PushNotificationSubscriber 681](#_Toc491434199)

[3.2.5.228.1 Properties 681](#_Toc491434200)

[3.2.5.228.1.1 Scalar Properties 681](#_Toc491434201)

[3.2.5.228.1.1.1 CustomArgs 681](#_Toc491434202)

[3.2.5.228.1.1.2 DeviceAppInstanceId 681](#_Toc491434203)

[3.2.5.228.1.1.3 LastModifiedTimeStamp 681](#_Toc491434204)

[3.2.5.228.1.1.4 RegistrationTimeStamp 681](#_Toc491434205)

[3.2.5.228.1.1.5 ServiceToken 681](#_Toc491434206)

[3.2.5.228.1.1.6 SubscriberType 682](#_Toc491434207)

[3.2.5.228.1.2 ObjectPath Properties 682](#_Toc491434208)

[3.2.5.228.1.2.1 User 682](#_Toc491434209)

[3.2.5.228.2 Methods 682](#_Toc491434210)

[3.2.5.228.2.1 Scalar Methods 682](#_Toc491434211)

[3.2.5.228.2.1.1 Update 682](#_Toc491434212)

[3.2.5.228.2.2 ObjectPath Methods 682](#_Toc491434213)

[3.2.5.229 Microsoft.SharePoint.Client.PushNotificationSubscriberCollection 682](#_Toc491434214)

[3.2.5.229.1 Properties 682](#_Toc491434215)

[3.2.5.229.1.1 Scalar Properties 682](#_Toc491434216)

[3.2.5.229.1.2 ObjectPath Properties 682](#_Toc491434217)

[3.2.5.229.2 Methods 682](#_Toc491434218)

[3.2.5.229.2.1 Scalar Methods 683](#_Toc491434219)

[3.2.5.229.2.2 ObjectPath Methods 683](#_Toc491434220)

[3.2.5.229.2.2.1 GetByStoreId 683](#_Toc491434221)

[3.2.5.230 Microsoft.BusinessData.Runtime.EntityEventType 683](#_Toc491434222)

[3.2.5.230.1 Field Values 683](#_Toc491434223)

[3.2.5.230.1.1 None 683](#_Toc491434224)

[3.2.5.230.1.2 ItemAdded 683](#_Toc491434225)

[3.2.5.230.1.3 ItemUpdated 683](#_Toc491434226)

[3.2.5.230.1.4 ItemDeleted 683](#_Toc491434227)

[3.2.5.231 Microsoft.BusinessData.Runtime.NotificationCallback 683](#_Toc491434228)

[3.2.5.231.1 Properties 684](#_Toc491434229)

[3.2.5.231.1.1 Scalar Properties 684](#_Toc491434230)

[3.2.5.231.1.1.1 NotificationContext 684](#_Toc491434231)

[3.2.5.231.1.1.2 NotificationEndpoint 684](#_Toc491434232)

[3.2.5.231.1.1.3 NotificationForwarderType 684](#_Toc491434233)

[3.2.5.231.1.2 ObjectPath Properties 684](#_Toc491434234)

[3.2.5.231.2 Methods 684](#_Toc491434235)

[3.2.5.231.2.1 Scalar Methods 684](#_Toc491434236)

[3.2.5.231.2.2 ObjectPath Methods 684](#_Toc491434237)

[3.2.5.231.2.2.1 CSOM Constructor 684](#_Toc491434238)

[3.2.5.232 Microsoft.BusinessData.Runtime.Subscription 685](#_Toc491434239)

[3.2.5.232.1 Properties 685](#_Toc491434240)

[3.2.5.232.1.1 Scalar Properties 685](#_Toc491434241)

[3.2.5.232.1.1.1 Hash 685](#_Toc491434242)

[3.2.5.232.1.1.2 ID 685](#_Toc491434243)

[3.2.5.232.1.2 ObjectPath Properties 685](#_Toc491434244)

[3.2.5.232.2 Methods 685](#_Toc491434245)

[3.2.5.232.2.1 Scalar Methods 685](#_Toc491434246)

[3.2.5.232.2.2 ObjectPath Methods 685](#_Toc491434247)

[3.2.5.232.2.2.1 CSOM Constructor 685](#_Toc491434248)

[3.2.5.233 Microsoft.SharePoint.Administration.SPAnalyticsUsageService 686](#_Toc491434249)

[3.2.5.233.1 Properties 686](#_Toc491434250)

[3.2.5.233.1.1 Scalar Properties 686](#_Toc491434251)

[3.2.5.233.1.2 ObjectPath Properties 686](#_Toc491434252)

[3.2.5.233.2 Methods 686](#_Toc491434253)

[3.2.5.233.2.1 Scalar Methods 686](#_Toc491434254)

[3.2.5.233.2.1.1 logevent 686](#_Toc491434255)

[3.2.5.233.2.2 ObjectPath Methods 686](#_Toc491434256)

[3.2.5.233.2.2.1 CSOM Constructor 686](#_Toc491434257)

[3.2.5.234 Microsoft.SharePoint.Administration.UsageEntry 686](#_Toc491434258)

[3.2.5.234.1 Properties 687](#_Toc491434259)

[3.2.5.234.1.1 Scalar Properties 687](#_Toc491434260)

[3.2.5.234.1.1.1 EventTypeId 687](#_Toc491434261)

[3.2.5.234.1.1.2 ItemId 687](#_Toc491434262)

[3.2.5.234.1.1.3 ScopeId 687](#_Toc491434263)

[3.2.5.234.1.1.4 Site 687](#_Toc491434264)

[3.2.5.234.1.1.5 User 687](#_Toc491434265)

[3.2.5.234.1.2 ObjectPath Properties 687](#_Toc491434266)

[3.2.5.235 Microsoft.BusinessData.Infrastructure.EntityInstanceIdEncoder 687](#_Toc491434267)

[3.2.5.235.1 Properties 687](#_Toc491434268)

[3.2.5.235.1.1 Scalar Properties 687](#_Toc491434269)

[3.2.5.235.1.2 ObjectPath Properties 688](#_Toc491434270)

[3.2.5.235.2 Methods 688](#_Toc491434271)

[3.2.5.235.2.1 Scalar Methods 688](#_Toc491434272)

[3.2.5.235.2.1.1 EncodeEntityInstanceId 688](#_Toc491434273)

[3.2.5.235.2.2 ObjectPath Methods 688](#_Toc491434274)

[3.2.5.236 Microsoft.BusinessData.Infrastructure.ExternalSubscriptionStore 688](#_Toc491434275)

[3.2.5.236.1 Properties 688](#_Toc491434276)

[3.2.5.236.1.1 Scalar Properties 688](#_Toc491434277)

[3.2.5.236.1.2 ObjectPath Properties 688](#_Toc491434278)

[3.2.5.236.2 Methods 689](#_Toc491434279)

[3.2.5.236.2.1 Scalar Methods 689](#_Toc491434280)

[3.2.5.236.2.1.1 IndexStore 689](#_Toc491434281)

[3.2.5.236.2.2 ObjectPath Methods 689](#_Toc491434282)

[3.2.5.236.2.2.1 CSOM Constructor 689](#_Toc491434283)

[3.2.5.237 Microsoft.SharePoint.Client.App 689](#_Toc491434284)

[3.2.5.237.1 Properties 689](#_Toc491434285)

[3.2.5.237.1.1 Scalar Properties 689](#_Toc491434286)

[3.2.5.237.1.1.1 AssetId 689](#_Toc491434287)

[3.2.5.237.1.1.2 ContentMarket 690](#_Toc491434288)

[3.2.5.237.1.1.3 VersionString 690](#_Toc491434289)

[3.2.5.237.1.2 ObjectPath Properties 690](#_Toc491434290)

[3.2.5.237.2 Methods 690](#_Toc491434291)

[3.2.5.237.2.1 Scalar Methods 690](#_Toc491434292)

[3.2.5.237.2.2 ObjectPath Methods 690](#_Toc491434293)

[3.2.5.238 Microsoft.SharePoint.Client.AppInstanceStatus 690](#_Toc491434294)

[3.2.5.238.1 Field Values 690](#_Toc491434295)

[3.2.5.238.1.1 InvalidStatus 690](#_Toc491434296)

[3.2.5.238.1.2 Installing 690](#_Toc491434297)

[3.2.5.238.1.3 Canceling 690](#_Toc491434298)

[3.2.5.238.1.4 Uninstalling 691](#_Toc491434299)

[3.2.5.238.1.5 Installed 691](#_Toc491434300)

[3.2.5.238.1.6 Upgrading 691](#_Toc491434301)

[3.2.5.238.1.7 Initialized 691](#_Toc491434302)

[3.2.5.238.1.8 UpgradeCanceling 691](#_Toc491434303)

[3.2.5.238.1.9 Disabling 691](#_Toc491434304)

[3.2.5.238.1.10 Disabled 691](#_Toc491434305)

[3.2.5.238.1.11 SecretRolling 691](#_Toc491434306)

[3.2.5.238.1.12 Recycling 691](#_Toc491434307)

[3.2.5.238.1.13 Recycled 691](#_Toc491434308)

[3.2.5.238.1.14 Restoring 692](#_Toc491434309)

[3.2.5.238.1.15 RestoreCanceling 692](#_Toc491434310)

[3.2.5.239 Microsoft.SharePoint.Client.AppLicense 692](#_Toc491434311)

[3.2.5.239.1 Properties 692](#_Toc491434312)

[3.2.5.239.1.1 Scalar Properties 692](#_Toc491434313)

[3.2.5.239.1.1.1 RawXMLLicenseToken 692](#_Toc491434314)

[3.2.5.239.1.2 ObjectPath Properties 692](#_Toc491434315)

[3.2.5.240 Microsoft.SharePoint.Client.AppLicenseCollection 692](#_Toc491434316)

[3.2.5.240.1 Properties 692](#_Toc491434317)

[3.2.5.240.1.1 Scalar Properties 692](#_Toc491434318)

[3.2.5.240.1.2 ObjectPath Properties 692](#_Toc491434319)

[3.2.5.241 Microsoft.SharePoint.Client.AppLicenseType 693](#_Toc491434320)

[3.2.5.241.1 Field Values 693](#_Toc491434321)

[3.2.5.241.1.1 PerpetualMultiUser 693](#_Toc491434322)

[3.2.5.241.1.2 PerpetualAllUsers 693](#_Toc491434323)

[3.2.5.241.1.3 TrialMultiUser 693](#_Toc491434324)

[3.2.5.241.1.4 TrialAllUsers 693](#_Toc491434325)

[3.2.5.242 Microsoft.SharePoint.Client.Language 693](#_Toc491434326)

[3.2.5.242.1 Properties 693](#_Toc491434327)

[3.2.5.242.1.1 Scalar Properties 693](#_Toc491434328)

[3.2.5.242.1.1.1 DisplayName 693](#_Toc491434329)

[3.2.5.242.1.1.2 LanguageTag 694](#_Toc491434330)

[3.2.5.242.1.1.3 Lcid 694](#_Toc491434331)

[3.2.5.242.1.2 ObjectPath Properties 694](#_Toc491434332)

[3.2.5.243 Microsoft.SharePoint.Client.ListItemFormUpdateValue 694](#_Toc491434333)

[3.2.5.243.1 Properties 694](#_Toc491434334)

[3.2.5.243.1.1 Scalar Properties 694](#_Toc491434335)

[3.2.5.243.1.1.1 ErrorMessage 694](#_Toc491434336)

[3.2.5.243.1.1.2 FieldName 694](#_Toc491434337)

[3.2.5.243.1.1.3 FieldValue 694](#_Toc491434338)

[3.2.5.243.1.1.4 HasException 694](#_Toc491434339)

[3.2.5.243.1.2 ObjectPath Properties 695](#_Toc491434340)

[3.2.5.244 Microsoft.SharePoint.Client.MenuNode 695](#_Toc491434341)

[3.2.5.244.1 Properties 695](#_Toc491434342)

[3.2.5.244.1.1 Scalar Properties 695](#_Toc491434343)

[3.2.5.244.1.1.1 CustomProperties 695](#_Toc491434344)

[3.2.5.244.1.1.2 FriendlyUrlSegment 695](#_Toc491434345)

[3.2.5.244.1.1.3 IsHidden 695](#_Toc491434346)

[3.2.5.244.1.1.4 Key 695](#_Toc491434347)

[3.2.5.244.1.1.5 Nodes 696](#_Toc491434348)

[3.2.5.244.1.1.6 NodeType 696](#_Toc491434349)

[3.2.5.244.1.1.7 SimpleUrl 696](#_Toc491434350)

[3.2.5.244.1.1.8 Title 696](#_Toc491434351)

[3.2.5.244.1.2 ObjectPath Properties 696](#_Toc491434352)

[3.2.5.245 Microsoft.SharePoint.Client.MenuNodeType 696](#_Toc491434353)

[3.2.5.245.1 Field Values 696](#_Toc491434354)

[3.2.5.245.1.1 SimpleLink 696](#_Toc491434355)

[3.2.5.245.1.2 FriendlyUrl 696](#_Toc491434356)

[3.2.5.246 Microsoft.SharePoint.Client.MenuState 697](#_Toc491434357)

[3.2.5.246.1 Properties 697](#_Toc491434358)

[3.2.5.246.1.1 Scalar Properties 697](#_Toc491434359)

[3.2.5.246.1.1.1 FriendlyUrlPrefix 697](#_Toc491434360)

[3.2.5.246.1.1.2 Nodes 697](#_Toc491434361)

[3.2.5.246.1.1.3 SimpleUrl 697](#_Toc491434362)

[3.2.5.246.1.1.4 SPSitePrefix 697](#_Toc491434363)

[3.2.5.246.1.1.5 SPWebPrefix 697](#_Toc491434364)

[3.2.5.246.1.1.6 StartingNodeKey 698](#_Toc491434365)

[3.2.5.246.1.1.7 StartingNodeTitle 698](#_Toc491434366)

[3.2.5.246.1.1.8 Version 698](#_Toc491434367)

[3.2.5.246.1.2 ObjectPath Properties 698](#_Toc491434368)

[3.2.5.247 Microsoft.SharePoint.Client.ObjectSharingInformationUser 698](#_Toc491434369)

[3.2.5.247.1 Properties 698](#_Toc491434370)

[3.2.5.247.1.1 Scalar Properties 698](#_Toc491434371)

[3.2.5.247.1.1.1 Department 698](#_Toc491434372)

[3.2.5.247.1.1.2 Email 698](#_Toc491434373)

[3.2.5.247.1.1.3 Id 699](#_Toc491434374)

[3.2.5.247.1.1.4 JobTitle 699](#_Toc491434375)

[3.2.5.247.1.1.5 Name 699](#_Toc491434376)

[3.2.5.247.1.1.6 Picture 699](#_Toc491434377)

[3.2.5.247.1.1.7 SipAddress 699](#_Toc491434378)

[3.2.5.247.1.1.8 CustomRoleNames 699](#_Toc491434379)

[3.2.5.247.1.1.9 HasEditPermission 700](#_Toc491434380)

[3.2.5.247.1.1.10 HasViewPermission 700](#_Toc491434381)

[3.2.5.247.1.1.11 IsSiteAdmin 700](#_Toc491434382)

[3.2.5.247.1.1.12 LoginName 700](#_Toc491434383)

[3.2.5.247.1.1.13 IsDomainGroup 700](#_Toc491434384)

[3.2.5.247.1.1.14 IsMemberOfGroup 700](#_Toc491434385)

[3.2.5.247.1.2 ObjectPath Properties 700](#_Toc491434386)

[3.2.5.247.1.2.1 User 700](#_Toc491434387)

[3.2.5.247.1.2.2 Principal 701](#_Toc491434388)

[3.2.5.247.2 Methods 701](#_Toc491434389)

[3.2.5.247.2.1 Scalar Methods 701](#_Toc491434390)

[3.2.5.247.2.2 ObjectPath Methods 701](#_Toc491434391)

[3.2.5.248 Microsoft.SharePoint.Client.OpenWebOptions 701](#_Toc491434392)

[3.2.5.248.1 Field Values 701](#_Toc491434393)

[3.2.5.248.1.1 None 701](#_Toc491434394)

[3.2.5.248.1.2 InitNavigationCache 701](#_Toc491434395)

[3.2.5.249 Microsoft.SharePoint.Client.RequestVariable 701](#_Toc491434396)

[3.2.5.249.1 Properties 702](#_Toc491434397)

[3.2.5.249.1.1 Scalar Properties 702](#_Toc491434398)

[3.2.5.249.1.1.1 Value 702](#_Toc491434399)

[3.2.5.249.1.2 ObjectPath Properties 702](#_Toc491434400)

[3.2.5.249.2 Methods 702](#_Toc491434401)

[3.2.5.249.2.1 Scalar Methods 702](#_Toc491434402)

[3.2.5.249.2.1.1 Append 702](#_Toc491434403)

[3.2.5.249.2.1.2 Set 702](#_Toc491434404)

[3.2.5.249.2.2 ObjectPath Methods 702](#_Toc491434405)

[3.2.5.249.2.2.1 CSOM Constructor 702](#_Toc491434406)

[3.2.5.250 Microsoft.SharePoint.Client.SiteUrl 702](#_Toc491434407)

[3.2.5.250.1 Properties 703](#_Toc491434408)

[3.2.5.250.1.1 Scalar Properties 703](#_Toc491434409)

[3.2.5.250.1.2 ObjectPath Properties 703](#_Toc491434410)

[3.2.5.250.2 Methods 703](#_Toc491434411)

[3.2.5.250.2.1 Scalar Methods 703](#_Toc491434412)

[3.2.5.250.2.2 ObjectPath Methods 703](#_Toc491434413)

[3.2.5.251 Microsoft.SharePoint.Client.UserIdInfo 703](#_Toc491434414)

[3.2.5.251.1 Properties 703](#_Toc491434415)

[3.2.5.251.1.1 Scalar Properties 703](#_Toc491434416)

[3.2.5.251.1.1.1 NameId 703](#_Toc491434417)

[3.2.5.251.1.1.2 NameIdIssuer 703](#_Toc491434418)

[3.2.5.251.1.2 ObjectPath Properties 703](#_Toc491434419)

[3.2.5.252 Microsoft.SharePoint.Client.Utilities.SPWOPIFrameAction 703](#_Toc491434420)

[3.2.5.252.1 Field Values 704](#_Toc491434421)

[3.2.5.252.1.1 View 704](#_Toc491434422)

[3.2.5.252.1.2 Edit 704](#_Toc491434423)

[3.2.5.252.1.3 MobileView 704](#_Toc491434424)

[3.2.5.252.1.4 InteractivePreview 704](#_Toc491434425)

[3.2.5.252.1.5 Syndicate 704](#_Toc491434426)

[3.2.5.252.1.6 LegacyWebService 704](#_Toc491434427)

[3.2.5.253 Microsoft.SharePoint.Navigation.REST.NavigationServiceRest 704](#_Toc491434428)

[3.2.5.253.1 Properties 704](#_Toc491434429)

[3.2.5.253.1.1 Scalar Properties 704](#_Toc491434430)

[3.2.5.253.1.2 ObjectPath Properties 704](#_Toc491434431)

[3.2.5.253.2 Methods 705](#_Toc491434432)

[3.2.5.253.2.1 Scalar Methods 705](#_Toc491434433)

[3.2.5.253.2.1.1 MenuNodeKey 705](#_Toc491434434)

[3.2.5.253.2.1.2 MenuState 705](#_Toc491434435)

[3.2.5.253.2.2 ObjectPath Methods 705](#_Toc491434436)

[3.2.5.253.2.2.1 CSOM Constructor 705](#_Toc491434437)

[3.2.5.254 Microsoft.SharePoint.Client.UpgradeInfo 705](#_Toc491434438)

[3.2.5.254.1 Properties 706](#_Toc491434439)

[3.2.5.254.1.1 Scalar Properties 706](#_Toc491434440)

[3.2.5.254.1.1.1 ErrorFile 706](#_Toc491434441)

[3.2.5.254.1.1.2 Errors 706](#_Toc491434442)

[3.2.5.254.1.1.3 LastUpdated 706](#_Toc491434443)

[3.2.5.254.1.1.4 LogFile 706](#_Toc491434444)

[3.2.5.254.1.1.5 RequestDate 706](#_Toc491434445)

[3.2.5.254.1.1.6 RetryCount 706](#_Toc491434446)

[3.2.5.254.1.1.7 StartTime 706](#_Toc491434447)

[3.2.5.254.1.1.8 Status 707](#_Toc491434448)

[3.2.5.254.1.1.9 UpgradeType 707](#_Toc491434449)

[3.2.5.254.1.1.10 Warnings 707](#_Toc491434450)

[3.2.5.254.1.2 ObjectPath Properties 707](#_Toc491434451)

[3.2.5.255 Microsoft.SharePoint.Client.UpgradeStatus 707](#_Toc491434452)

[3.2.5.255.1 Field Values 707](#_Toc491434453)

[3.2.5.255.1.1 None 707](#_Toc491434454)

[3.2.5.255.1.2 InProgress 707](#_Toc491434455)

[3.2.5.255.1.3 Failed 707](#_Toc491434456)

[3.2.5.255.1.4 Completed 708](#_Toc491434457)

[3.2.5.256 Microsoft.SharePoint.Client.AppInstanceErrorDetails 708](#_Toc491434458)

[3.2.5.256.1 Properties 708](#_Toc491434459)

[3.2.5.256.1.1 Scalar Properties 708](#_Toc491434460)

[3.2.5.256.1.1.1 CorrelationId 708](#_Toc491434461)

[3.2.5.256.1.1.2 ErrorDetail 708](#_Toc491434462)

[3.2.5.256.1.1.3 ErrorType 708](#_Toc491434463)

[3.2.5.256.1.1.4 ErrorTypeName 708](#_Toc491434464)

[3.2.5.256.1.1.5 ExceptionMessage 708](#_Toc491434465)

[3.2.5.256.1.1.6 Source 708](#_Toc491434466)

[3.2.5.256.1.1.7 SourceName 709](#_Toc491434467)

[3.2.5.256.1.2 ObjectPath Properties 709](#_Toc491434468)

[3.2.5.256.2 Methods 709](#_Toc491434469)

[3.2.5.256.2.1 Scalar Methods 709](#_Toc491434470)

[3.2.5.256.2.2 ObjectPath Methods 709](#_Toc491434471)

[3.2.5.257 Microsoft.SharePoint.Client.AppInstanceErrorSource 709](#_Toc491434472)

[3.2.5.257.1 Field Values 709](#_Toc491434473)

[3.2.5.257.1.1 Common 709](#_Toc491434474)

[3.2.5.257.1.2 AppWeb 709](#_Toc491434475)

[3.2.5.257.1.3 ParentWeb 709](#_Toc491434476)

[3.2.5.257.1.4 RemoteWebSite 709](#_Toc491434477)

[3.2.5.257.1.5 Database 710](#_Toc491434478)

[3.2.5.257.1.6 OfficeExtension 710](#_Toc491434479)

[3.2.5.257.1.7 EventCallouts 710](#_Toc491434480)

[3.2.5.257.1.8 Finalization 710](#_Toc491434481)

[3.2.5.258 Microsoft.SharePoint.Client.AppInstanceErrorType 710](#_Toc491434482)

[3.2.5.258.1 Field Values 710](#_Toc491434483)

[3.2.5.258.1.1 Transient 710](#_Toc491434484)

[3.2.5.258.1.2 Configuration 710](#_Toc491434485)

[3.2.5.258.1.3 App 710](#_Toc491434486)

[3.2.5.259 Microsoft.SharePoint.Client.CompatibilityRange 711](#_Toc491434487)

[3.2.5.259.1 Properties 711](#_Toc491434488)

[3.2.5.259.1.1 Scalar Properties 711](#_Toc491434489)

[3.2.5.259.1.2 ObjectPath Properties 711](#_Toc491434490)

[3.2.5.259.2 Methods 711](#_Toc491434491)

[3.2.5.259.2.1 Scalar Methods 711](#_Toc491434492)

[3.2.5.259.2.2 ObjectPath Methods 711](#_Toc491434493)

[3.2.5.260 Microsoft.SharePoint.Client.AccessRequests 711](#_Toc491434494)

[3.2.5.260.1 Properties 711](#_Toc491434495)

[3.2.5.260.1.1 Scalar Properties 711](#_Toc491434496)

[3.2.5.260.1.2 ObjectPath Properties 711](#_Toc491434497)

[3.2.5.260.2 Methods 711](#_Toc491434498)

[3.2.5.260.2.1 Scalar Methods 711](#_Toc491434499)

[3.2.5.260.2.1.1 ChangeRequestStatus 711](#_Toc491434500)

[3.2.5.260.2.1.2 ChangeRequestStatusBulk 712](#_Toc491434501)

[3.2.5.260.2.1.3 UpdateConversation 713](#_Toc491434502)

[3.2.5.260.2.2 ObjectPath Methods 713](#_Toc491434503)

[3.2.5.261 Microsoft.SharePoint.Client.AppContextSite 713](#_Toc491434504)

[3.2.5.261.1 Properties 713](#_Toc491434505)

[3.2.5.261.1.1 Scalar Properties 713](#_Toc491434506)

[3.2.5.261.1.2 ObjectPath Properties 713](#_Toc491434507)

[3.2.5.261.1.2.1 Site 714](#_Toc491434508)

[3.2.5.261.1.2.2 Web 714](#_Toc491434509)

[3.2.5.261.2 Methods 714](#_Toc491434510)

[3.2.5.261.2.1 Scalar Methods 714](#_Toc491434511)

[3.2.5.261.2.2 ObjectPath Methods 714](#_Toc491434512)

[3.2.5.261.2.2.1 CSOM Constructor 714](#_Toc491434513)

[3.2.5.262 Microsoft.SharePoint.Client.Analytics.AnalyticsUsageEntry 714](#_Toc491434514)

[3.2.5.262.1 Properties 714](#_Toc491434515)

[3.2.5.262.1.1 Scalar Properties 714](#_Toc491434516)

[3.2.5.262.1.2 ObjectPath Properties 714](#_Toc491434517)

[3.2.5.262.2 Methods 714](#_Toc491434518)

[3.2.5.262.2.1 Scalar Methods 715](#_Toc491434519)

[3.2.5.262.2.1.1 LogAnalyticsAppEvent 715](#_Toc491434520)

[3.2.5.262.2.1.2 LogAnalyticsAppEvent2 715](#_Toc491434521)

[3.2.5.262.2.1.3 LogAnalyticsEvent 715](#_Toc491434522)

[3.2.5.262.2.1.4 LogAnalyticsEvent2 716](#_Toc491434523)

[3.2.5.262.2.2 ObjectPath Methods 716](#_Toc491434524)

[3.2.5.263 Microsoft.SharePoint.Client.UrlZone 716](#_Toc491434525)

[3.2.5.263.1 Field Values 717](#_Toc491434526)

[3.2.5.263.1.1 DefaultZone 717](#_Toc491434527)

[3.2.5.263.1.2 Intranet 717](#_Toc491434528)

[3.2.5.263.1.3 Internet 717](#_Toc491434529)

[3.2.5.263.1.4 Custom 717](#_Toc491434530)

[3.2.5.263.1.5 Extranet 717](#_Toc491434531)

[3.2.5.264 Microsoft.SharePoint.Client.WebParts.TileData 717](#_Toc491434532)

[3.2.5.264.1 Properties 717](#_Toc491434533)

[3.2.5.264.1.1 Scalar Properties 717](#_Toc491434534)

[3.2.5.264.1.1.1 BackgroundCollageImageLocations 717](#_Toc491434535)

[3.2.5.264.1.1.2 BackgroundImageLocation 717](#_Toc491434536)

[3.2.5.264.1.1.3 BackgroundImageRendersAsIcon 718](#_Toc491434537)

[3.2.5.264.1.1.4 BodyText 718](#_Toc491434538)

[3.2.5.264.1.1.5 Description 718](#_Toc491434539)

[3.2.5.264.1.1.6 HoverDisabled 718](#_Toc491434540)

[3.2.5.264.1.1.7 ID 718](#_Toc491434541)

[3.2.5.264.1.1.8 IsWide 718](#_Toc491434542)

[3.2.5.264.1.1.9 LinkLocation 718](#_Toc491434543)

[3.2.5.264.1.1.10 TileOrder 719](#_Toc491434544)

[3.2.5.264.1.1.11 Title 719](#_Toc491434545)

[3.2.5.264.1.1.12 TransparentOverlay 719](#_Toc491434546)

[3.2.5.264.1.2 ObjectPath Properties 719](#_Toc491434547)

[3.2.5.265 Microsoft.SharePoint.Client.AppPrincipal 719](#_Toc491434548)

[3.2.5.265.1 Properties 719](#_Toc491434549)

[3.2.5.265.1.1 Scalar Properties 719](#_Toc491434550)

[3.2.5.265.1.1.1 DisplayName 719](#_Toc491434551)

[3.2.5.265.1.1.2 EndpointAuthorities 719](#_Toc491434552)

[3.2.5.265.1.1.3 NameIdentifier 719](#_Toc491434553)

[3.2.5.265.1.1.4 RedirectAddresses 720](#_Toc491434554)

[3.2.5.265.1.2 ObjectPath Properties 720](#_Toc491434555)

[3.2.5.265.2 Methods 720](#_Toc491434556)

[3.2.5.265.2.1 Scalar Methods 720](#_Toc491434557)

[3.2.5.265.2.2 ObjectPath Methods 720](#_Toc491434558)

[3.2.5.266 Microsoft.SharePoint.Client.AppPrincipalConfiguration 720](#_Toc491434559)

[3.2.5.266.1 Properties 720](#_Toc491434560)

[3.2.5.266.1.1 Scalar Properties 720](#_Toc491434561)

[3.2.5.266.1.1.1 ApplicationEndpointAuthorities 720](#_Toc491434562)

[3.2.5.266.1.1.2 ApplicationPrincipalNames 720](#_Toc491434563)

[3.2.5.266.1.1.3 NameIdentifier 721](#_Toc491434564)

[3.2.5.266.1.1.4 RedirectAddresses 721](#_Toc491434565)

[3.2.5.266.1.2 ObjectPath Properties 721](#_Toc491434566)

[3.2.5.267 Microsoft.SharePoint.Client.AppPrincipalCredential 721](#_Toc491434567)

[3.2.5.267.1 Properties 721](#_Toc491434568)

[3.2.5.267.1.1 Scalar Properties 721](#_Toc491434569)

[3.2.5.267.1.2 ObjectPath Properties 721](#_Toc491434570)

[3.2.5.267.2 Methods 721](#_Toc491434571)

[3.2.5.267.2.1 Scalar Methods 721](#_Toc491434572)

[3.2.5.267.2.2 ObjectPath Methods 721](#_Toc491434573)

[3.2.5.267.2.2.1 CreateFromKeyGroup 721](#_Toc491434574)

[3.2.5.267.2.2.2 CreateFromSymmetricKey 722](#_Toc491434575)

[3.2.5.268 Microsoft.SharePoint.Client.AppPrincipalCredentialReference 722](#_Toc491434576)

[3.2.5.268.1 Properties 722](#_Toc491434577)

[3.2.5.268.1.1 Scalar Properties 722](#_Toc491434578)

[3.2.5.268.1.1.1 Id 722](#_Toc491434579)

[3.2.5.268.1.1.2 NameIdentifier 722](#_Toc491434580)

[3.2.5.268.1.1.3 NotAfter 722](#_Toc491434581)

[3.2.5.268.1.1.4 NotBefore 722](#_Toc491434582)

[3.2.5.268.1.2 ObjectPath Properties 723](#_Toc491434583)

[3.2.5.269 Microsoft.SharePoint.Client.AppPrincipalIdentityProvider 723](#_Toc491434584)

[3.2.5.269.1 Properties 723](#_Toc491434585)

[3.2.5.269.1.1 Scalar Properties 723](#_Toc491434586)

[3.2.5.269.1.2 ObjectPath Properties 723](#_Toc491434587)

[3.2.5.269.1.2.1 External 723](#_Toc491434588)

[3.2.5.269.2 Methods 723](#_Toc491434589)

[3.2.5.269.2.1 Scalar Methods 723](#_Toc491434590)

[3.2.5.269.2.2 ObjectPath Methods 723](#_Toc491434591)

[3.2.5.270 Microsoft.SharePoint.Client.AppPrincipalManager 723](#_Toc491434592)

[3.2.5.270.1 Properties 723](#_Toc491434593)

[3.2.5.270.1.1 Scalar Properties 723](#_Toc491434594)

[3.2.5.270.1.2 ObjectPath Properties 724](#_Toc491434595)

[3.2.5.270.2 Methods 724](#_Toc491434596)

[3.2.5.270.2.1 Scalar Methods 724](#_Toc491434597)

[3.2.5.270.2.1.1 AddAppPrincipalCredential 724](#_Toc491434598)

[3.2.5.270.2.1.2 DeleteAppPrincipal 724](#_Toc491434599)

[3.2.5.270.2.1.3 DeleteAppPrincipalCredential 724](#_Toc491434600)

[3.2.5.270.2.1.4 GetAppPrincipalConfiguration 724](#_Toc491434601)

[3.2.5.270.2.1.5 GetAppPrincipalCredentials 725](#_Toc491434602)

[3.2.5.270.2.1.6 SetAppPrincipalConfiguration 725](#_Toc491434603)

[3.2.5.270.2.2 ObjectPath Methods 725](#_Toc491434604)

[3.2.5.270.2.2.1 CreateAppPrincipal 725](#_Toc491434605)

[3.2.5.270.2.2.2 GetManager 725](#_Toc491434606)

[3.2.5.270.2.2.3 LookupAppPrincipal 725](#_Toc491434607)

[3.2.5.271 Microsoft.SharePoint.Client.AppPrincipalName 726](#_Toc491434608)

[3.2.5.271.1 Properties 726](#_Toc491434609)

[3.2.5.271.1.1 Scalar Properties 726](#_Toc491434610)

[3.2.5.271.1.2 ObjectPath Properties 726](#_Toc491434611)

[3.2.5.271.2 Methods 726](#_Toc491434612)

[3.2.5.271.2.1 Scalar Methods 726](#_Toc491434613)

[3.2.5.271.2.2 ObjectPath Methods 726](#_Toc491434614)

[3.2.5.271.2.2.1 CreateFromAppPrincipalIdentifier 726](#_Toc491434615)

[3.2.5.271.2.2.2 CreateFromNameIdentifier 726](#_Toc491434616)

[3.2.5.272 Microsoft.SharePoint.Client.ExternalAppPrincipalCreationParameters 727](#_Toc491434617)

[3.2.5.272.1 Properties 727](#_Toc491434618)

[3.2.5.272.1.1 Scalar Properties 727](#_Toc491434619)

[3.2.5.272.1.1.1 AppIdentifier 727](#_Toc491434620)

[3.2.5.272.1.1.2 ApplicationEndpointAuthorities 727](#_Toc491434621)

[3.2.5.272.1.1.3 DisplayName 727](#_Toc491434622)

[3.2.5.272.1.1.4 RedirectAddresses 727](#_Toc491434623)

[3.2.5.272.1.1.5 TrustedForDelegation 727](#_Toc491434624)

[3.2.5.272.1.2 ObjectPath Properties 727](#_Toc491434625)

[3.2.5.272.1.2.1 Credential 727](#_Toc491434626)

[3.2.5.273 Microsoft.SharePoint.Client.SiteHealth.SiteHealthStatusType 728](#_Toc491434627)

[3.2.5.273.1 Field Values 728](#_Toc491434628)

[3.2.5.273.1.1 Passed 728](#_Toc491434629)

[3.2.5.273.1.2 FailedWarning 728](#_Toc491434630)

[3.2.5.273.1.3 FailedError 728](#_Toc491434631)

[3.2.5.274 Microsoft.SharePoint.Client.Utilities.LogAppErrorResult 728](#_Toc491434632)

[3.2.5.274.1 Field Values 728](#_Toc491434633)

[3.2.5.274.1.1 Success 728](#_Toc491434634)

[3.2.5.274.1.2 ErrorsThrottled 728](#_Toc491434635)

[3.2.5.274.1.3 AccessDenied 728](#_Toc491434636)

[3.2.5.275 Microsoft.SharePoint.Client.RenderListDataParameters 729](#_Toc491434637)

[3.2.5.275.1 Properties 729](#_Toc491434638)

[3.2.5.275.1.1 Scalar Properties 729](#_Toc491434639)

[3.2.5.275.1.1.1 FolderServerRelativeUrl 729](#_Toc491434640)

[3.2.5.275.1.1.2 Paging 729](#_Toc491434641)

[3.2.5.275.1.1.3 RenderOptions 729](#_Toc491434642)

[3.2.5.275.1.1.4 ViewXml 729](#_Toc491434643)

[3.2.5.275.1.2 ObjectPath Properties 729](#_Toc491434644)

[3.2.5.276 Microsoft.SharePoint.Client.TenantAppUtility\_manual 729](#_Toc491434645)

[3.2.5.276.1 Properties 730](#_Toc491434646)

[3.2.5.276.1.1 Scalar Properties 730](#_Toc491434647)

[3.2.5.276.1.2 ObjectPath Properties 730](#_Toc491434648)

[3.2.5.276.2 Methods 730](#_Toc491434649)

[3.2.5.276.2.1 Scalar Methods 730](#_Toc491434650)

[3.2.5.276.2.2 ObjectPath Methods 730](#_Toc491434651)

[3.2.5.276.2.2.1 GetTenantAppInformationCollection 730](#_Toc491434652)

[3.2.5.277 Microsoft.SharePoint.Client.TenantAppInformation\_manual 730](#_Toc491434653)

[3.2.5.277.1 Properties 730](#_Toc491434654)

[3.2.5.277.1.1 Scalar Properties 730](#_Toc491434655)

[3.2.5.277.1.1.1 Id 730](#_Toc491434656)

[3.2.5.277.1.1.2 CreationTime 730](#_Toc491434657)

[3.2.5.277.1.1.3 LaunchUrl 731](#_Toc491434658)

[3.2.5.277.1.1.4 RemoteAppUrl 731](#_Toc491434659)

[3.2.5.277.1.1.5 AppPrincipalId 731](#_Toc491434660)

[3.2.5.277.1.1.6 Status 731](#_Toc491434661)

[3.2.5.277.1.1.7 Title 731](#_Toc491434662)

[3.2.5.277.1.1.8 ProductId 731](#_Toc491434663)

[3.2.5.277.1.1.9 IconAbsoluteUrl 731](#_Toc491434664)

[3.2.5.277.1.1.10 IconFallbackAbsoluteUrl 732](#_Toc491434665)

[3.2.5.277.1.1.11 AppWebFullUrl 732](#_Toc491434666)

[3.2.5.277.1.1.12 PackageFingerprint 732](#_Toc491434667)

[3.2.5.277.1.2 ObjectPath Properties 732](#_Toc491434668)

[3.2.5.277.2 Methods 732](#_Toc491434669)

[3.2.5.277.2.1 Scalar Methods 732](#_Toc491434670)

[3.2.5.277.2.2 ObjectPath Methods 732](#_Toc491434671)

[3.2.5.278 Microsoft.SharePoint.Client.AppTile 732](#_Toc491434672)

[3.2.5.278.1 Properties 732](#_Toc491434673)

[3.2.5.278.1.1 Scalar Properties 732](#_Toc491434674)

[3.2.5.278.1.1.1 AppType 732](#_Toc491434675)

[3.2.5.278.1.1.2 ChildCount 733](#_Toc491434676)

[3.2.5.278.1.1.3 LastModified 733](#_Toc491434677)

[3.2.5.278.1.1.4 Target 733](#_Toc491434678)

[3.2.5.278.1.1.5 Thumbnail 733](#_Toc491434679)

[3.2.5.278.1.1.6 Title 733](#_Toc491434680)

[3.2.5.278.1.2 ObjectPath Properties 733](#_Toc491434681)

[3.2.5.278.2 Methods 733](#_Toc491434682)

[3.2.5.278.2.1 Scalar Methods 733](#_Toc491434683)

[3.2.5.278.2.2 ObjectPath Methods 733](#_Toc491434684)

[3.2.5.279 Microsoft.SharePoint.Client.AppTileCollection 733](#_Toc491434685)

[3.2.5.279.1 Properties 734](#_Toc491434686)

[3.2.5.279.1.1 Scalar Properties 734](#_Toc491434687)

[3.2.5.279.1.2 ObjectPath Properties 734](#_Toc491434688)

[3.2.5.279.2 Methods 734](#_Toc491434689)

[3.2.5.279.2.1 Scalar Methods 734](#_Toc491434690)

[3.2.5.279.2.2 ObjectPath Methods 734](#_Toc491434691)

[3.2.5.280 Microsoft.SharePoint.Client.AppType 734](#_Toc491434692)

[3.2.5.280.1 Field Values 734](#_Toc491434693)

[3.2.5.280.1.1 Doclib 734](#_Toc491434694)

[3.2.5.280.1.2 List 734](#_Toc491434695)

[3.2.5.280.1.3 Tenant 734](#_Toc491434696)

[3.2.5.280.1.4 Instance 734](#_Toc491434697)

[3.2.5.280.1.5 Feature 734](#_Toc491434698)

[3.2.5.280.1.6 CommonList 735](#_Toc491434699)

[3.2.5.281 Microsoft.SharePoint.Client.Audit 735](#_Toc491434700)

[3.2.5.281.1 Properties 735](#_Toc491434701)

[3.2.5.281.1.1 Scalar Properties 735](#_Toc491434702)

[3.2.5.281.1.1.1 AuditFlags 735](#_Toc491434703)

[3.2.5.281.1.2 ObjectPath Properties 735](#_Toc491434704)

[3.2.5.281.2 Methods 735](#_Toc491434705)

[3.2.5.281.2.1 Scalar Methods 735](#_Toc491434706)

[3.2.5.281.2.1.1 Update 735](#_Toc491434707)

[3.2.5.281.2.2 ObjectPath Methods 735](#_Toc491434708)

[3.2.5.282 Microsoft.SharePoint.Client.AuditMaskType 735](#_Toc491434709)

[3.2.5.282.1 Field Values 736](#_Toc491434710)

[3.2.5.282.1.1 None 736](#_Toc491434711)

[3.2.5.282.1.2 CheckOut 736](#_Toc491434712)

[3.2.5.282.1.3 CheckIn 736](#_Toc491434713)

[3.2.5.282.1.4 View 736](#_Toc491434714)

[3.2.5.282.1.5 ObjectDelete 736](#_Toc491434715)

[3.2.5.282.1.6 Update 736](#_Toc491434716)

[3.2.5.282.1.7 ProfileChange 736](#_Toc491434717)

[3.2.5.282.1.8 ChildDelete 736](#_Toc491434718)

[3.2.5.282.1.9 SchemaChange 736](#_Toc491434719)

[3.2.5.282.1.10 SecurityChange 737](#_Toc491434720)

[3.2.5.282.1.11 Undelete 737](#_Toc491434721)

[3.2.5.282.1.12 Workflow 737](#_Toc491434722)

[3.2.5.282.1.13 Copy 737](#_Toc491434723)

[3.2.5.282.1.14 Move 737](#_Toc491434724)

[3.2.5.282.1.15 Search 737](#_Toc491434725)

[3.2.5.282.1.16 All 737](#_Toc491434726)

[3.2.5.283 Microsoft.SharePoint.Client.CreatableItemInfo 737](#_Toc491434727)

[3.2.5.283.1 Properties 737](#_Toc491434728)

[3.2.5.283.1.1 Scalar Properties 737](#_Toc491434729)

[3.2.5.283.1.1.1 DocumentTemplate 737](#_Toc491434730)

[3.2.5.283.1.1.2 FileExtension 738](#_Toc491434731)

[3.2.5.283.1.1.3 ItemType 738](#_Toc491434732)

[3.2.5.283.1.2 ObjectPath Properties 738](#_Toc491434733)

[3.2.5.284 Microsoft.SharePoint.Client.CreatableItemInfoCollection 738](#_Toc491434734)

[3.2.5.284.1 Properties 738](#_Toc491434735)

[3.2.5.284.1.1 Scalar Properties 738](#_Toc491434736)

[3.2.5.284.1.2 ObjectPath Properties 738](#_Toc491434737)

[3.2.5.285 Microsoft.SharePoint.Client.CreatablesInfo 738](#_Toc491434738)

[3.2.5.285.1 Properties 739](#_Toc491434739)

[3.2.5.285.1.1 Scalar Properties 739](#_Toc491434740)

[3.2.5.285.1.1.1 CanCreateFolders 739](#_Toc491434741)

[3.2.5.285.1.1.2 CanCreateItems 739](#_Toc491434742)

[3.2.5.285.1.1.3 CanUploadFiles 739](#_Toc491434743)

[3.2.5.285.1.1.4 CreatablesCollection 739](#_Toc491434744)

[3.2.5.285.1.2 ObjectPath Properties 739](#_Toc491434745)

[3.2.5.285.2 Methods 739](#_Toc491434746)

[3.2.5.285.2.1 Scalar Methods 739](#_Toc491434747)

[3.2.5.285.2.2 ObjectPath Methods 739](#_Toc491434748)

[3.2.5.286 Microsoft.SharePoint.Client.DlpPolicyTip 739](#_Toc491434749)

[3.2.5.286.1 Properties 740](#_Toc491434750)

[3.2.5.286.1.1 Scalar Properties 740](#_Toc491434751)

[3.2.5.286.1.1.1 AppliedActionsText 740](#_Toc491434752)

[3.2.5.286.1.1.2 ComplianceUrl 740](#_Toc491434753)

[3.2.5.286.1.1.3 GeneralText 740](#_Toc491434754)

[3.2.5.286.1.1.4 LastProcessedTime 740](#_Toc491434755)

[3.2.5.286.1.1.5 MatchedConditionDescriptions 740](#_Toc491434756)

[3.2.5.286.1.1.6 OverrideOptions 740](#_Toc491434757)

[3.2.5.286.1.2 ObjectPath Properties 740](#_Toc491434758)

[3.2.5.286.2 Methods 740](#_Toc491434759)

[3.2.5.286.2.1 Scalar Methods 741](#_Toc491434760)

[3.2.5.286.2.2 ObjectPath Methods 741](#_Toc491434761)

[3.2.5.287 Microsoft.SharePoint.Client.DocumentLibraryInformation 741](#_Toc491434762)

[3.2.5.287.1 Properties 741](#_Toc491434763)

[3.2.5.287.1.1 Scalar Properties 741](#_Toc491434764)

[3.2.5.287.1.1.1 Modified 741](#_Toc491434765)

[3.2.5.287.1.1.2 ModifiedFriendlyDisplay 741](#_Toc491434766)

[3.2.5.287.1.1.3 ServerRelativeUrl 741](#_Toc491434767)

[3.2.5.287.1.1.4 Title 741](#_Toc491434768)

[3.2.5.287.1.2 ObjectPath Properties 741](#_Toc491434769)

[3.2.5.288 Microsoft.SharePoint.Client.DocumentTemplateType 742](#_Toc491434770)

[3.2.5.288.1 Field Values 742](#_Toc491434771)

[3.2.5.288.1.1 Invalid 742](#_Toc491434772)

[3.2.5.288.1.2 Word 742](#_Toc491434773)

[3.2.5.288.1.3 Excel 742](#_Toc491434774)

[3.2.5.288.1.4 PowerPoint 742](#_Toc491434775)

[3.2.5.288.1.5 OneNote 742](#_Toc491434776)

[3.2.5.288.1.6 ExcelForm 742](#_Toc491434777)

[3.2.5.288.1.7 Max 742](#_Toc491434778)

[3.2.5.289 Microsoft.SharePoint.Client.EffectiveInformationRightsManagementSettings 742](#_Toc491434779)

[3.2.5.289.1 Properties 743](#_Toc491434780)

[3.2.5.289.1.1 Scalar Properties 743](#_Toc491434781)

[3.2.5.289.1.1.1 AllowPrint 743](#_Toc491434782)

[3.2.5.289.1.1.2 AllowScript 743](#_Toc491434783)

[3.2.5.289.1.1.3 AllowWriteCopy 743](#_Toc491434784)

[3.2.5.289.1.1.4 DisableDocumentBrowserView 743](#_Toc491434785)

[3.2.5.289.1.1.5 DocumentAccessExpireDays 743](#_Toc491434786)

[3.2.5.289.1.1.6 DocumentLibraryProtectionExpireDate 743](#_Toc491434787)

[3.2.5.289.1.1.7 EnableDocumentAccessExpire 743](#_Toc491434788)

[3.2.5.289.1.1.8 EnableDocumentBrowserPublishingView 744](#_Toc491434789)

[3.2.5.289.1.1.9 EnableGroupProtection 744](#_Toc491434790)

[3.2.5.289.1.1.10 EnableLicenseCacheExpire 744](#_Toc491434791)

[3.2.5.289.1.1.11 GroupName 744](#_Toc491434792)

[3.2.5.289.1.1.12 IrmEnabled 744](#_Toc491434793)

[3.2.5.289.1.1.13 LicenseCacheExpireDays 744](#_Toc491434794)

[3.2.5.289.1.1.14 PolicyDescription 744](#_Toc491434795)

[3.2.5.289.1.1.15 PolicyTitle 745](#_Toc491434796)

[3.2.5.289.1.1.16 SettingSource 745](#_Toc491434797)

[3.2.5.289.1.2 ObjectPath Properties 745](#_Toc491434798)

[3.2.5.289.2 Methods 745](#_Toc491434799)

[3.2.5.289.2.1 Scalar Methods 745](#_Toc491434800)

[3.2.5.289.2.2 ObjectPath Methods 745](#_Toc491434801)

[3.2.5.290 Microsoft.SharePoint.Client.FolderEntityData 745](#_Toc491434802)

[3.2.5.290.1 Properties 745](#_Toc491434803)

[3.2.5.290.1.1 Scalar Properties 745](#_Toc491434804)

[3.2.5.290.1.1.1 Overwrite 745](#_Toc491434805)

[3.2.5.290.1.1.2 ServerRelativeUrl 745](#_Toc491434806)

[3.2.5.290.1.2 ObjectPath Properties 746](#_Toc491434807)

[3.2.5.291 Microsoft.SharePoint.Client.InformationRightsManagementFileSettings 746](#_Toc491434808)

[3.2.5.291.1 Properties 746](#_Toc491434809)

[3.2.5.291.1.1 Scalar Properties 746](#_Toc491434810)

[3.2.5.291.1.1.1 AllowPrint 746](#_Toc491434811)

[3.2.5.291.1.1.2 AllowScript 746](#_Toc491434812)

[3.2.5.291.1.1.3 AllowWriteCopy 746](#_Toc491434813)

[3.2.5.291.1.1.4 DisableDocumentBrowserView 746](#_Toc491434814)

[3.2.5.291.1.1.5 DocumentAccessExpireDays 747](#_Toc491434815)

[3.2.5.291.1.1.6 EnableDocumentAccessExpire 747](#_Toc491434816)

[3.2.5.291.1.1.7 EnableDocumentBrowserPublishingView 747](#_Toc491434817)

[3.2.5.291.1.1.8 EnableGroupProtection 747](#_Toc491434818)

[3.2.5.291.1.1.9 EnableLicenseCacheExpire 747](#_Toc491434819)

[3.2.5.291.1.1.10 GroupName 747](#_Toc491434820)

[3.2.5.291.1.1.11 LicenseCacheExpireDays 748](#_Toc491434821)

[3.2.5.291.1.1.12 PolicyDescription 748](#_Toc491434822)

[3.2.5.291.1.1.13 PolicyTitle 748](#_Toc491434823)

[3.2.5.291.1.2 ObjectPath Properties 748](#_Toc491434824)

[3.2.5.291.2 Methods 748](#_Toc491434825)

[3.2.5.291.2.1 Scalar Methods 748](#_Toc491434826)

[3.2.5.291.2.1.1 Reset 748](#_Toc491434827)

[3.2.5.291.2.1.2 Update 748](#_Toc491434828)

[3.2.5.291.2.2 ObjectPath Methods 748](#_Toc491434829)

[3.2.5.292 Microsoft.SharePoint.Client.IngestionTaskKey 749](#_Toc491434830)

[3.2.5.292.1 Properties 749](#_Toc491434831)

[3.2.5.292.1.1 Scalar Properties 749](#_Toc491434832)

[3.2.5.292.1.1.1 IngestionTableAccountKey 749](#_Toc491434833)

[3.2.5.292.1.1.2 IngestionTableAccountName 749](#_Toc491434834)

[3.2.5.292.1.1.3 JobId 749](#_Toc491434835)

[3.2.5.292.1.1.4 TaskId 749](#_Toc491434836)

[3.2.5.292.1.1.5 TenantName 749](#_Toc491434837)

[3.2.5.292.1.2 ObjectPath Properties 749](#_Toc491434838)

[3.2.5.293 Microsoft.SharePoint.Client.MigrationJobState 749](#_Toc491434839)

[3.2.5.293.1 Field Values 750](#_Toc491434840)

[3.2.5.293.1.1 None 750](#_Toc491434841)

[3.2.5.293.1.2 Queued 750](#_Toc491434842)

[3.2.5.293.1.3 Processing 750](#_Toc491434843)

[3.2.5.294 Microsoft.SharePoint.Client.MountedFolderInfo 750](#_Toc491434844)

[3.2.5.294.1 Properties 750](#_Toc491434845)

[3.2.5.294.1.1 Scalar Properties 750](#_Toc491434846)

[3.2.5.294.1.1.1 FolderUrl 750](#_Toc491434847)

[3.2.5.294.1.1.2 HasEditPermission 750](#_Toc491434848)

[3.2.5.294.1.1.3 ItemId 750](#_Toc491434849)

[3.2.5.294.1.1.4 ListTemplateType 751](#_Toc491434850)

[3.2.5.294.1.1.5 ListViewUrl 751](#_Toc491434851)

[3.2.5.294.1.1.6 WebUrl 751](#_Toc491434852)

[3.2.5.294.1.2 ObjectPath Properties 751](#_Toc491434853)

[3.2.5.294.2 Methods 751](#_Toc491434854)

[3.2.5.294.2.1 Scalar Methods 751](#_Toc491434855)

[3.2.5.294.2.2 ObjectPath Methods 751](#_Toc491434856)

[3.2.5.295 Microsoft.SharePoint.Client.MountPoint 751](#_Toc491434857)

[3.2.5.295.1 Properties 751](#_Toc491434858)

[3.2.5.295.1.1 Scalar Properties 751](#_Toc491434859)

[3.2.5.295.1.2 ObjectPath Properties 752](#_Toc491434860)

[3.2.5.295.2 Methods 752](#_Toc491434861)

[3.2.5.295.2.1 Scalar Methods 752](#_Toc491434862)

[3.2.5.295.2.1.1 CreateMountPoint 752](#_Toc491434863)

[3.2.5.295.2.1.2 GetMountedFolderUrls 752](#_Toc491434864)

[3.2.5.295.2.2 ObjectPath Methods 752](#_Toc491434865)

[3.2.5.295.2.2.1 GetMountedFolderInfo 752](#_Toc491434866)

[3.2.5.296 Microsoft.SharePoint.Client.MountPointInfo 753](#_Toc491434867)

[3.2.5.296.1 Properties 753](#_Toc491434868)

[3.2.5.296.1.1 Scalar Properties 753](#_Toc491434869)

[3.2.5.296.1.1.1 Name 753](#_Toc491434870)

[3.2.5.296.1.1.2 RedirectUrl 753](#_Toc491434871)

[3.2.5.296.1.2 ObjectPath Properties 753](#_Toc491434872)

[3.2.5.296.2 Methods 753](#_Toc491434873)

[3.2.5.296.2.1 Scalar Methods 753](#_Toc491434874)

[3.2.5.296.2.2 ObjectPath Methods 753](#_Toc491434875)

[3.2.5.297 Microsoft.SharePoint.Client.MoveCopyUtil 754](#_Toc491434876)

[3.2.5.297.1 Properties 754](#_Toc491434877)

[3.2.5.297.1.1 Scalar Properties 754](#_Toc491434878)

[3.2.5.297.1.2 ObjectPath Properties 754](#_Toc491434879)

[3.2.5.297.2 Methods 754](#_Toc491434880)

[3.2.5.297.2.1 Scalar Methods 754](#_Toc491434881)

[3.2.5.297.2.1.1 CopyFile 754](#_Toc491434882)

[3.2.5.297.2.1.2 CopyFolder 755](#_Toc491434883)

[3.2.5.297.2.1.3 MoveFile 755](#_Toc491434884)

[3.2.5.297.2.1.4 MoveFolder 756](#_Toc491434885)

[3.2.5.297.2.2 ObjectPath Methods 757](#_Toc491434886)

[3.2.5.298 Microsoft.SharePoint.Client.OAuth.NativeClient 757](#_Toc491434887)

[3.2.5.298.1 Properties 757](#_Toc491434888)

[3.2.5.298.1.1 Scalar Properties 757](#_Toc491434889)

[3.2.5.298.1.2 ObjectPath Properties 757](#_Toc491434890)

[3.2.5.298.2 Methods 757](#_Toc491434891)

[3.2.5.298.2.1 Scalar Methods 757](#_Toc491434892)

[3.2.5.298.2.1.1 Authenticate 757](#_Toc491434893)

[3.2.5.298.2.2 ObjectPath Methods 758](#_Toc491434894)

[3.2.5.298.2.2.1 CSOM Constructor 758](#_Toc491434895)

[3.2.5.299 Microsoft.SharePoint.Client.ObjectSharingInformationUserCollection 758](#_Toc491434896)

[3.2.5.299.1 Properties 758](#_Toc491434897)

[3.2.5.299.1.1 Scalar Properties 758](#_Toc491434898)

[3.2.5.299.1.2 ObjectPath Properties 758](#_Toc491434899)

[3.2.5.299.2 Methods 758](#_Toc491434900)

[3.2.5.299.2.1 Scalar Methods 758](#_Toc491434901)

[3.2.5.299.2.2 ObjectPath Methods 758](#_Toc491434902)

[3.2.5.300 Microsoft.SharePoint.Client.ObjectSharingSettings 758](#_Toc491434903)

[3.2.5.300.1 Properties 758](#_Toc491434904)

[3.2.5.300.1.1 Scalar Properties 758](#_Toc491434905)

[3.2.5.300.1.1.1 AccessRequestMode 758](#_Toc491434906)

[3.2.5.300.1.1.2 CanCurrentUserManageOrganizationReadonlyLink 759](#_Toc491434907)

[3.2.5.300.1.1.3 CanCurrentUserManageOrganizationReadWriteLink 759](#_Toc491434908)

[3.2.5.300.1.1.4 CanCurrentUserManageReadonlyLink 759](#_Toc491434909)

[3.2.5.300.1.1.5 CanCurrentUserManageReadWriteLink 759](#_Toc491434910)

[3.2.5.300.1.1.6 CanCurrentUserRetrieveOrganizationReadonlyLink 759](#_Toc491434911)

[3.2.5.300.1.1.7 CanCurrentUserRetrieveOrganizationReadWriteLink 759](#_Toc491434912)

[3.2.5.300.1.1.8 CanCurrentUserRetrieveReadonlyLink 759](#_Toc491434913)

[3.2.5.300.1.1.9 CanCurrentUserRetrieveReadWriteLink 760](#_Toc491434914)

[3.2.5.300.1.1.10 CanCurrentUserShareExternally 760](#_Toc491434915)

[3.2.5.300.1.1.11 CanCurrentUserShareInternally 760](#_Toc491434916)

[3.2.5.300.1.1.12 CanSendEmail 760](#_Toc491434917)

[3.2.5.300.1.1.13 CanSendLink 760](#_Toc491434918)

[3.2.5.300.1.1.14 CanShareFolder 760](#_Toc491434919)

[3.2.5.300.1.1.15 GroupsList 760](#_Toc491434920)

[3.2.5.300.1.1.16 HasEditRole 761](#_Toc491434921)

[3.2.5.300.1.1.17 HasReadRole 761](#_Toc491434922)

[3.2.5.300.1.1.18 InheritingWebLink 761](#_Toc491434923)

[3.2.5.300.1.1.19 IsGuestUser 761](#_Toc491434924)

[3.2.5.300.1.1.20 IsPictureLibrary 761](#_Toc491434925)

[3.2.5.300.1.1.21 IsUserSiteAdmin 761](#_Toc491434926)

[3.2.5.300.1.1.22 ItemId 761](#_Toc491434927)

[3.2.5.300.1.1.23 ItemName 762](#_Toc491434928)

[3.2.5.300.1.1.24 ItemUrl 762](#_Toc491434929)

[3.2.5.300.1.1.25 ListId 762](#_Toc491434930)

[3.2.5.300.1.1.26 PermissionsOnlyMode 762](#_Toc491434931)

[3.2.5.300.1.1.27 Roles 762](#_Toc491434932)

[3.2.5.300.1.1.28 ShareByEmailEnabled 762](#_Toc491434933)

[3.2.5.300.1.1.29 ShowExternalSharingWarning 762](#_Toc491434934)

[3.2.5.300.1.1.30 SimplifiedRoles 763](#_Toc491434935)

[3.2.5.300.1.1.31 SupportsAclPropagation 763](#_Toc491434936)

[3.2.5.300.1.1.32 WebUrl 763](#_Toc491434937)

[3.2.5.300.1.2 ObjectPath Properties 763](#_Toc491434938)

[3.2.5.300.1.2.1 ObjectSharingInformation 763](#_Toc491434939)

[3.2.5.300.1.2.2 SharePointSettings 763](#_Toc491434940)

[3.2.5.300.1.2.3 SharingPermissions 763](#_Toc491434941)

[3.2.5.300.2 Methods 763](#_Toc491434942)

[3.2.5.300.2.1 Scalar Methods 763](#_Toc491434943)

[3.2.5.300.2.2 ObjectPath Methods 763](#_Toc491434944)

[3.2.5.301 Microsoft.SharePoint.Client.PickerSettings 764](#_Toc491434945)

[3.2.5.301.1 Properties 764](#_Toc491434946)

[3.2.5.301.1.1 Scalar Properties 764](#_Toc491434947)

[3.2.5.301.1.1.1 AllowEmailAddresses 764](#_Toc491434948)

[3.2.5.301.1.1.2 AllowOnlyEmailAddresses 764](#_Toc491434949)

[3.2.5.301.1.1.3 PrincipalAccountType 764](#_Toc491434950)

[3.2.5.301.1.1.4 PrincipalSource 764](#_Toc491434951)

[3.2.5.301.1.1.5 VisibleSuggestions 764](#_Toc491434952)

[3.2.5.301.1.2 ObjectPath Properties 765](#_Toc491434953)

[3.2.5.301.2 Methods 765](#_Toc491434954)

[3.2.5.301.2.1 Scalar Methods 765](#_Toc491434955)

[3.2.5.301.2.2 ObjectPath Methods 765](#_Toc491434956)

[3.2.5.302 Microsoft.SharePoint.Client.PolicyTipUserAction 765](#_Toc491434957)

[3.2.5.302.1 Field Values 765](#_Toc491434958)

[3.2.5.302.1.1 Override 765](#_Toc491434959)

[3.2.5.302.1.2 ReportFalsePositive 765](#_Toc491434960)

[3.2.5.303 Microsoft.SharePoint.Client.PolicyTipUserActionResult 765](#_Toc491434961)

[3.2.5.303.1 Field Values 765](#_Toc491434962)

[3.2.5.303.1.1 None 765](#_Toc491434963)

[3.2.5.303.1.2 FalsePositiveReported 765](#_Toc491434964)

[3.2.5.303.1.3 Overridden 766](#_Toc491434965)

[3.2.5.303.1.4 FalsePositiveReportedAndOverridden 766](#_Toc491434966)

[3.2.5.304 Microsoft.SharePoint.Client.RemoteWeb 766](#_Toc491434967)

[3.2.5.304.1 Properties 766](#_Toc491434968)

[3.2.5.304.1.1 Scalar Properties 766](#_Toc491434969)

[3.2.5.304.1.1.1 CanSendEmail 766](#_Toc491434970)

[3.2.5.304.1.1.2 ShareByEmailEnabled 766](#_Toc491434971)

[3.2.5.304.1.1.3 ShareByLinkEnabled 766](#_Toc491434972)

[3.2.5.304.1.2 ObjectPath Properties 766](#_Toc491434973)

[3.2.5.304.2 Methods 766](#_Toc491434974)

[3.2.5.304.2.1 Scalar Methods 766](#_Toc491434975)

[3.2.5.304.2.2 ObjectPath Methods 767](#_Toc491434976)

[3.2.5.304.2.2.1 CSOM Constructor 767](#_Toc491434977)

[3.2.5.304.2.2.2 GetFileByServerRelativeUrl 767](#_Toc491434978)

[3.2.5.304.2.2.3 GetFolderByServerRelativeUrl 767](#_Toc491434979)

[3.2.5.304.2.2.4 GetGroupById 767](#_Toc491434980)

[3.2.5.304.2.2.5 GetListById 768](#_Toc491434981)

[3.2.5.304.2.2.6 GetListByServerRelativeUrl 768](#_Toc491434982)

[3.2.5.305 Microsoft.SharePoint.Client.RenderListContextMenuDataParameters 768](#_Toc491434983)

[3.2.5.305.1 Properties 768](#_Toc491434984)

[3.2.5.305.1.1 Scalar Properties 768](#_Toc491434985)

[3.2.5.305.1.1.1 CascDelWarnMessage 768](#_Toc491434986)

[3.2.5.305.1.1.2 CustomAction 768](#_Toc491434987)

[3.2.5.305.1.1.3 Field 769](#_Toc491434988)

[3.2.5.305.1.1.4 ID 769](#_Toc491434989)

[3.2.5.305.1.1.5 InplaceFullListSearch 769](#_Toc491434990)

[3.2.5.305.1.1.6 InplaceSearchQuery 769](#_Toc491434991)

[3.2.5.305.1.1.7 IsCSR 769](#_Toc491434992)

[3.2.5.305.1.1.8 IsXslView 769](#_Toc491434993)

[3.2.5.305.1.1.9 ItemId 769](#_Toc491434994)

[3.2.5.305.1.1.10 ListViewPageUrl 769](#_Toc491434995)

[3.2.5.305.1.1.11 OverrideScope 770](#_Toc491434996)

[3.2.5.305.1.1.12 RootFolder 770](#_Toc491434997)

[3.2.5.305.1.1.13 View 770](#_Toc491434998)

[3.2.5.305.1.1.14 ViewCount 770](#_Toc491434999)

[3.2.5.305.1.2 ObjectPath Properties 770](#_Toc491435000)

[3.2.5.306 Microsoft.SharePoint.Client.RenderListDataOptions 770](#_Toc491435001)

[3.2.5.306.1 Field Values 770](#_Toc491435002)

[3.2.5.306.1.1 None 770](#_Toc491435003)

[3.2.5.306.1.2 ContextInfo 770](#_Toc491435004)

[3.2.5.306.1.3 ListData 771](#_Toc491435005)

[3.2.5.306.1.4 ListSchema 771](#_Toc491435006)

[3.2.5.306.1.5 MenuView 771](#_Toc491435007)

[3.2.5.307 Microsoft.SharePoint.Client.RenderListDataOverrideParameters 771](#_Toc491435008)

[3.2.5.307.1 Properties 771](#_Toc491435009)

[3.2.5.307.1.1 Scalar Properties 771](#_Toc491435010)

[3.2.5.307.1.1.1 CascDelWarnMessage 771](#_Toc491435011)

[3.2.5.307.1.1.2 CustomAction 771](#_Toc491435012)

[3.2.5.307.1.1.3 DrillDown 771](#_Toc491435013)

[3.2.5.307.1.1.4 Field 772](#_Toc491435014)

[3.2.5.307.1.1.5 FieldInternalName 772](#_Toc491435015)

[3.2.5.307.1.1.6 Filter 772](#_Toc491435016)

[3.2.5.307.1.1.7 FilterData 772](#_Toc491435017)

[3.2.5.307.1.1.8 FilterData1 772](#_Toc491435018)

[3.2.5.307.1.1.9 FilterData10 772](#_Toc491435019)

[3.2.5.307.1.1.10 FilterData2 772](#_Toc491435020)

[3.2.5.307.1.1.11 FilterData3 772](#_Toc491435021)

[3.2.5.307.1.1.12 FilterData4 773](#_Toc491435022)

[3.2.5.307.1.1.13 FilterData5 773](#_Toc491435023)

[3.2.5.307.1.1.14 FilterData6 773](#_Toc491435024)

[3.2.5.307.1.1.15 FilterData7 773](#_Toc491435025)

[3.2.5.307.1.1.16 FilterData8 773](#_Toc491435026)

[3.2.5.307.1.1.17 FilterData9 773](#_Toc491435027)

[3.2.5.307.1.1.18 FilterField 773](#_Toc491435028)

[3.2.5.307.1.1.19 FilterField1 774](#_Toc491435029)

[3.2.5.307.1.1.20 FilterField10 774](#_Toc491435030)

[3.2.5.307.1.1.21 FilterField2 774](#_Toc491435031)

[3.2.5.307.1.1.22 FilterField3 774](#_Toc491435032)

[3.2.5.307.1.1.23 FilterField4 774](#_Toc491435033)

[3.2.5.307.1.1.24 FilterField5 774](#_Toc491435034)

[3.2.5.307.1.1.25 FilterField6 774](#_Toc491435035)

[3.2.5.307.1.1.26 FilterField7 774](#_Toc491435036)

[3.2.5.307.1.1.27 FilterField8 775](#_Toc491435037)

[3.2.5.307.1.1.28 FilterField9 775](#_Toc491435038)

[3.2.5.307.1.1.29 FilterFields 775](#_Toc491435039)

[3.2.5.307.1.1.30 FilterFields1 775](#_Toc491435040)

[3.2.5.307.1.1.31 FilterFields10 775](#_Toc491435041)

[3.2.5.307.1.1.32 FilterFields2 775](#_Toc491435042)

[3.2.5.307.1.1.33 FilterFields3 775](#_Toc491435043)

[3.2.5.307.1.1.34 FilterFields4 776](#_Toc491435044)

[3.2.5.307.1.1.35 FilterFields5 776](#_Toc491435045)

[3.2.5.307.1.1.36 FilterFields6 776](#_Toc491435046)

[3.2.5.307.1.1.37 FilterFields7 776](#_Toc491435047)

[3.2.5.307.1.1.38 FilterFields8 776](#_Toc491435048)

[3.2.5.307.1.1.39 FilterFields9 776](#_Toc491435049)

[3.2.5.307.1.1.40 FilterLookupId 776](#_Toc491435050)

[3.2.5.307.1.1.41 FilterLookupId1 776](#_Toc491435051)

[3.2.5.307.1.1.42 FilterLookupId10 777](#_Toc491435052)

[3.2.5.307.1.1.43 FilterLookupId2 777](#_Toc491435053)

[3.2.5.307.1.1.44 FilterLookupId3 777](#_Toc491435054)

[3.2.5.307.1.1.45 FilterLookupId4 777](#_Toc491435055)

[3.2.5.307.1.1.46 FilterLookupId5 777](#_Toc491435056)

[3.2.5.307.1.1.47 FilterLookupId6 777](#_Toc491435057)

[3.2.5.307.1.1.48 FilterLookupId7 777](#_Toc491435058)

[3.2.5.307.1.1.49 FilterLookupId8 778](#_Toc491435059)

[3.2.5.307.1.1.50 FilterLookupId9 778](#_Toc491435060)

[3.2.5.307.1.1.51 FilterOp 778](#_Toc491435061)

[3.2.5.307.1.1.52 FilterOp1 778](#_Toc491435062)

[3.2.5.307.1.1.53 FilterOp10 778](#_Toc491435063)

[3.2.5.307.1.1.54 FilterOp2 778](#_Toc491435064)

[3.2.5.307.1.1.55 FilterOp3 778](#_Toc491435065)

[3.2.5.307.1.1.56 FilterOp4 779](#_Toc491435066)

[3.2.5.307.1.1.57 FilterOp5 779](#_Toc491435067)

[3.2.5.307.1.1.58 FilterOp6 779](#_Toc491435068)

[3.2.5.307.1.1.59 FilterOp7 779](#_Toc491435069)

[3.2.5.307.1.1.60 FilterOp8 779](#_Toc491435070)

[3.2.5.307.1.1.61 FilterOp9 779](#_Toc491435071)

[3.2.5.307.1.1.62 FilterValue 779](#_Toc491435072)

[3.2.5.307.1.1.63 FilterValue1 780](#_Toc491435073)

[3.2.5.307.1.1.64 FilterValue10 780](#_Toc491435074)

[3.2.5.307.1.1.65 FilterValue2 780](#_Toc491435075)

[3.2.5.307.1.1.66 FilterValue3 780](#_Toc491435076)

[3.2.5.307.1.1.67 FilterValue4 780](#_Toc491435077)

[3.2.5.307.1.1.68 FilterValue5 780](#_Toc491435078)

[3.2.5.307.1.1.69 FilterValue6 780](#_Toc491435079)

[3.2.5.307.1.1.70 FilterValue7 781](#_Toc491435080)

[3.2.5.307.1.1.71 FilterValue8 781](#_Toc491435081)

[3.2.5.307.1.1.72 FilterValue9 781](#_Toc491435082)

[3.2.5.307.1.1.73 FilterValues 781](#_Toc491435083)

[3.2.5.307.1.1.74 FilterValues1 781](#_Toc491435084)

[3.2.5.307.1.1.75 FilterValues10 781](#_Toc491435085)

[3.2.5.307.1.1.76 FilterValues2 781](#_Toc491435086)

[3.2.5.307.1.1.77 FilterValues3 782](#_Toc491435087)

[3.2.5.307.1.1.78 FilterValues4 782](#_Toc491435088)

[3.2.5.307.1.1.79 FilterValues5 782](#_Toc491435089)

[3.2.5.307.1.1.80 FilterValues6 782](#_Toc491435090)

[3.2.5.307.1.1.81 FilterValues7 782](#_Toc491435091)

[3.2.5.307.1.1.82 FilterValues8 782](#_Toc491435092)

[3.2.5.307.1.1.83 FilterValues9 782](#_Toc491435093)

[3.2.5.307.1.1.84 GroupString 783](#_Toc491435094)

[3.2.5.307.1.1.85 HasOverrideSelectCommand 783](#_Toc491435095)

[3.2.5.307.1.1.86 ID 783](#_Toc491435096)

[3.2.5.307.1.1.87 InplaceFullListSearch 783](#_Toc491435097)

[3.2.5.307.1.1.88 InplaceSearchQuery 783](#_Toc491435098)

[3.2.5.307.1.1.89 IsCSR 783](#_Toc491435099)

[3.2.5.307.1.1.90 IsGroupRender 783](#_Toc491435100)

[3.2.5.307.1.1.91 IsXslView 784](#_Toc491435101)

[3.2.5.307.1.1.92 ListViewPageUrl 784](#_Toc491435102)

[3.2.5.307.1.1.93 OverrideScope 784](#_Toc491435103)

[3.2.5.307.1.1.94 OverrideSelectCommand 784](#_Toc491435104)

[3.2.5.307.1.1.95 PageFirstRow 784](#_Toc491435105)

[3.2.5.307.1.1.96 PageLastRow 784](#_Toc491435106)

[3.2.5.307.1.1.97 RootFolder 784](#_Toc491435107)

[3.2.5.307.1.1.98 SortDir 784](#_Toc491435108)

[3.2.5.307.1.1.99 SortDir1 785](#_Toc491435109)

[3.2.5.307.1.1.100 SortDir10 785](#_Toc491435110)

[3.2.5.307.1.1.101 SortDir2 785](#_Toc491435111)

[3.2.5.307.1.1.102 SortDir3 785](#_Toc491435112)

[3.2.5.307.1.1.103 SortDir4 785](#_Toc491435113)

[3.2.5.307.1.1.104 SortDir5 785](#_Toc491435114)

[3.2.5.307.1.1.105 SortDir6 785](#_Toc491435115)

[3.2.5.307.1.1.106 SortDir7 786](#_Toc491435116)

[3.2.5.307.1.1.107 SortDir8 786](#_Toc491435117)

[3.2.5.307.1.1.108 SortDir9 786](#_Toc491435118)

[3.2.5.307.1.1.109 SortField 786](#_Toc491435119)

[3.2.5.307.1.1.110 SortField1 786](#_Toc491435120)

[3.2.5.307.1.1.111 SortField10 786](#_Toc491435121)

[3.2.5.307.1.1.112 SortField2 786](#_Toc491435122)

[3.2.5.307.1.1.113 SortField3 786](#_Toc491435123)

[3.2.5.307.1.1.114 SortField4 787](#_Toc491435124)

[3.2.5.307.1.1.115 SortField5 787](#_Toc491435125)

[3.2.5.307.1.1.116 SortField6 787](#_Toc491435126)

[3.2.5.307.1.1.117 SortField7 787](#_Toc491435127)

[3.2.5.307.1.1.118 SortField8 787](#_Toc491435128)

[3.2.5.307.1.1.119 SortField9 787](#_Toc491435129)

[3.2.5.307.1.1.120 SortFields 787](#_Toc491435130)

[3.2.5.307.1.1.121 SortFieldValues 788](#_Toc491435131)

[3.2.5.307.1.1.122 View 788](#_Toc491435132)

[3.2.5.307.1.1.123 ViewCount 788](#_Toc491435133)

[3.2.5.307.1.1.124 ViewId 788](#_Toc491435134)

[3.2.5.307.1.1.125 WebPartId 788](#_Toc491435135)

[3.2.5.307.1.2 ObjectPath Properties 788](#_Toc491435136)

[3.2.5.308 Microsoft.SharePoint.Client.RenderListFilterDataParameters 788](#_Toc491435137)

[3.2.5.308.1 Properties 788](#_Toc491435138)

[3.2.5.308.1.1 Scalar Properties 788](#_Toc491435139)

[3.2.5.308.1.1.1 FieldInternalName 789](#_Toc491435140)

[3.2.5.308.1.1.2 OverrideScope 789](#_Toc491435141)

[3.2.5.308.1.1.3 ProcessQStringToCAML 789](#_Toc491435142)

[3.2.5.308.1.1.4 ViewId 789](#_Toc491435143)

[3.2.5.308.1.2 ObjectPath Properties 789](#_Toc491435144)

[3.2.5.309 Microsoft.SharePoint.Client.RequestUserContext 789](#_Toc491435145)

[3.2.5.309.1 Properties 789](#_Toc491435146)

[3.2.5.309.1.1 Scalar Properties 789](#_Toc491435147)

[3.2.5.309.1.2 ObjectPath Properties 789](#_Toc491435148)

[3.2.5.309.1.2.1 Current 789](#_Toc491435149)

[3.2.5.309.1.2.2 User 790](#_Toc491435150)

[3.2.5.309.2 Methods 790](#_Toc491435151)

[3.2.5.309.2.1 Scalar Methods 790](#_Toc491435152)

[3.2.5.309.2.2 ObjectPath Methods 790](#_Toc491435153)

[3.2.5.310 Microsoft.SharePoint.Client.RuleOverrideOptions 790](#_Toc491435154)

[3.2.5.310.1 Field Values 790](#_Toc491435155)

[3.2.5.310.1.1 None 790](#_Toc491435156)

[3.2.5.310.1.2 Allow 790](#_Toc491435157)

[3.2.5.310.1.3 AllowWithJustification 790](#_Toc491435158)

[3.2.5.311 Microsoft.SharePoint.Client.SandboxedCodeActivationCapabilities 790](#_Toc491435159)

[3.2.5.311.1 Field Values 791](#_Toc491435160)

[3.2.5.311.1.1 Check 791](#_Toc491435161)

[3.2.5.311.1.2 Disabled 791](#_Toc491435162)

[3.2.5.311.1.3 Enabled 791](#_Toc491435163)

[3.2.5.312 Microsoft.SharePoint.Client.SharePointSharingSettings 791](#_Toc491435164)

[3.2.5.312.1 Properties 791](#_Toc491435165)

[3.2.5.312.1.1 Scalar Properties 791](#_Toc491435166)

[3.2.5.312.1.1.1 AddToGroupModeName 791](#_Toc491435167)

[3.2.5.312.1.1.2 GroupNameLines 791](#_Toc491435168)

[3.2.5.312.1.1.3 GroupRoleDefinitionNamesLines 791](#_Toc491435169)

[3.2.5.312.1.1.4 IsMobileView 792](#_Toc491435170)

[3.2.5.312.1.1.5 PanelGivePermissionsVisible 792](#_Toc491435171)

[3.2.5.312.1.1.6 PanelShowHideMoreOptionsVisible 792](#_Toc491435172)

[3.2.5.312.1.1.7 PanelSimplifiedRoleSelectorVisible 792](#_Toc491435173)

[3.2.5.312.1.1.8 RequiredScriptFileLinks 792](#_Toc491435174)

[3.2.5.312.1.1.9 RoleDefinitionNameLines 792](#_Toc491435175)

[3.2.5.312.1.1.10 SelectedGroup 792](#_Toc491435176)

[3.2.5.312.1.1.11 SharedWithEnabled 793](#_Toc491435177)

[3.2.5.312.1.1.12 SharingCssLink 793](#_Toc491435178)

[3.2.5.312.1.1.13 TabbedDialogEnabled 793](#_Toc491435179)

[3.2.5.312.1.1.14 TabToShow 793](#_Toc491435180)

[3.2.5.312.1.1.15 txtEmailSubjectText 793](#_Toc491435181)

[3.2.5.312.1.1.16 UserDisplayUrl 793](#_Toc491435182)

[3.2.5.312.1.2 ObjectPath Properties 793](#_Toc491435183)

[3.2.5.312.1.2.1 PickerProperties 793](#_Toc491435184)

[3.2.5.312.2 Methods 794](#_Toc491435185)

[3.2.5.312.2.1 Scalar Methods 794](#_Toc491435186)

[3.2.5.312.2.2 ObjectPath Methods 794](#_Toc491435187)

[3.2.5.313 Microsoft.SharePoint.Client.Sharing.WebSharingManager 794](#_Toc491435188)

[3.2.5.313.1 Properties 794](#_Toc491435189)

[3.2.5.313.1.1 Scalar Properties 794](#_Toc491435190)

[3.2.5.313.1.2 ObjectPath Properties 794](#_Toc491435191)

[3.2.5.313.2 Methods 794](#_Toc491435192)

[3.2.5.313.2.1 Scalar Methods 794](#_Toc491435193)

[3.2.5.313.2.1.1 CanMemberShare 794](#_Toc491435194)

[3.2.5.313.2.1.2 UpdateWebSharingInformation 794](#_Toc491435195)

[3.2.5.313.2.2 ObjectPath Methods 795](#_Toc491435196)

[3.2.5.314 Microsoft.SharePoint.Client.SharingLinkInfo 795](#_Toc491435197)

[3.2.5.314.1 Properties 795](#_Toc491435198)

[3.2.5.314.1.1 Scalar Properties 795](#_Toc491435199)

[3.2.5.314.1.1.1 IsActive 795](#_Toc491435200)

[3.2.5.314.1.1.2 LinkKind 795](#_Toc491435201)

[3.2.5.314.1.1.3 Url 795](#_Toc491435202)

[3.2.5.314.1.2 ObjectPath Properties 796](#_Toc491435203)

[3.2.5.315 Microsoft.SharePoint.Client.SharingLinkKind 796](#_Toc491435204)

[3.2.5.315.1 Field Values 796](#_Toc491435205)

[3.2.5.315.1.1 Uninitialized 796](#_Toc491435206)

[3.2.5.315.1.2 Direct 796](#_Toc491435207)

[3.2.5.315.1.3 OrganizationView 796](#_Toc491435208)

[3.2.5.315.1.4 OrganizationEdit 796](#_Toc491435209)

[3.2.5.315.1.5 AnonymousView 796](#_Toc491435210)

[3.2.5.315.1.6 AnonymousEdit 796](#_Toc491435211)

[3.2.5.316 Microsoft.SharePoint.Client.SharingOperationStatusCode 797](#_Toc491435212)

[3.2.5.316.1 Field Values 797](#_Toc491435213)

[3.2.5.316.1.1 CompletedSuccessfully 797](#_Toc491435214)

[3.2.5.316.1.2 AccessRequestsQueued 797](#_Toc491435215)

[3.2.5.316.1.3 NoResolvedUsers 797](#_Toc491435216)

[3.2.5.316.1.4 AccessDenied 797](#_Toc491435217)

[3.2.5.316.1.5 CrossSiteRequestNotSupported 797](#_Toc491435218)

[3.2.5.316.1.6 UnknowError 797](#_Toc491435219)

[3.2.5.317 Microsoft.SharePoint.Client.SharingPermissionInformation 797](#_Toc491435220)

[3.2.5.317.1 Properties 797](#_Toc491435221)

[3.2.5.317.1.1 Scalar Properties 797](#_Toc491435222)

[3.2.5.317.1.1.1 IsDefaultPermission 798](#_Toc491435223)

[3.2.5.317.1.1.2 PermissionDescription 798](#_Toc491435224)

[3.2.5.317.1.1.3 PermissionId 798](#_Toc491435225)

[3.2.5.317.1.1.4 PermissionKind 798](#_Toc491435226)

[3.2.5.317.1.1.5 PermissionName 798](#_Toc491435227)

[3.2.5.317.1.2 ObjectPath Properties 798](#_Toc491435228)

[3.2.5.317.2 Methods 798](#_Toc491435229)

[3.2.5.317.2.1 Scalar Methods 798](#_Toc491435230)

[3.2.5.317.2.2 ObjectPath Methods 799](#_Toc491435231)

[3.2.5.318 Microsoft.SharePoint.Client.SharingPermissionInformationCollection 799](#_Toc491435232)

[3.2.5.318.1 Properties 799](#_Toc491435233)

[3.2.5.318.1.1 Scalar Properties 799](#_Toc491435234)

[3.2.5.318.1.2 ObjectPath Properties 799](#_Toc491435235)

[3.2.5.318.2 Methods 799](#_Toc491435236)

[3.2.5.318.2.1 Scalar Methods 799](#_Toc491435237)

[3.2.5.318.2.2 ObjectPath Methods 799](#_Toc491435238)

[3.2.5.319 Microsoft.SharePoint.Client.SharingPermissionKind 799](#_Toc491435239)

[3.2.5.319.1 Field Values 799](#_Toc491435240)

[3.2.5.319.1.1 Group 799](#_Toc491435241)

[3.2.5.319.1.2 Role 799](#_Toc491435242)

[3.2.5.320 Microsoft.SharePoint.Client.SharingResult 800](#_Toc491435243)

[3.2.5.320.1 Properties 800](#_Toc491435244)

[3.2.5.320.1.1 Scalar Properties 800](#_Toc491435245)

[3.2.5.320.1.1.1 ErrorMessage 800](#_Toc491435246)

[3.2.5.320.1.1.2 IconUrl 800](#_Toc491435247)

[3.2.5.320.1.1.3 InvitedUsers 800](#_Toc491435248)

[3.2.5.320.1.1.4 Name 800](#_Toc491435249)

[3.2.5.320.1.1.5 PermissionsPageRelativeUrl 800](#_Toc491435250)

[3.2.5.320.1.1.6 StatusCode 800](#_Toc491435251)

[3.2.5.320.1.1.7 UniquelyPermissionedUsers 801](#_Toc491435252)

[3.2.5.320.1.1.8 Url 801](#_Toc491435253)

[3.2.5.320.1.1.9 UsersAddedToGroup 801](#_Toc491435254)

[3.2.5.320.1.2 ObjectPath Properties 801](#_Toc491435255)

[3.2.5.320.1.2.1 GroupsSharedWith 801](#_Toc491435256)

[3.2.5.320.1.2.2 GroupUsersAddedTo 801](#_Toc491435257)

[3.2.5.320.1.2.3 UsersWithAccessRequests 801](#_Toc491435258)

[3.2.5.320.2 Methods 801](#_Toc491435259)

[3.2.5.320.2.1 Scalar Methods 801](#_Toc491435260)

[3.2.5.320.2.2 ObjectPath Methods 801](#_Toc491435261)

[3.2.5.321 Microsoft.SharePoint.Client.SharingUserCollection 802](#_Toc491435262)

[3.2.5.321.1 Properties 802](#_Toc491435263)

[3.2.5.321.1.1 Scalar Properties 802](#_Toc491435264)

[3.2.5.321.1.2 ObjectPath Properties 802](#_Toc491435265)

[3.2.5.321.2 Methods 802](#_Toc491435266)

[3.2.5.321.2.1 Scalar Methods 802](#_Toc491435267)

[3.2.5.321.2.2 ObjectPath Methods 802](#_Toc491435268)

[3.2.5.322 Microsoft.SharePoint.Client.SPDataLeakagePreventionStatusInfo 802](#_Toc491435269)

[3.2.5.322.1 Properties 802](#_Toc491435270)

[3.2.5.322.1.1 Scalar Properties 802](#_Toc491435271)

[3.2.5.322.1.1.1 ContainsConfidentialInfo 802](#_Toc491435272)

[3.2.5.322.1.1.2 ContainsConfidentialInfoLearnMoreUrl 802](#_Toc491435273)

[3.2.5.322.1.1.3 ExternalSharingTipsEnabled 803](#_Toc491435274)

[3.2.5.322.1.1.4 ExternalSharingTipsLearnMoreUrl 803](#_Toc491435275)

[3.2.5.322.1.2 ObjectPath Properties 803](#_Toc491435276)

[3.2.5.322.2 Methods 803](#_Toc491435277)

[3.2.5.322.2.1 Scalar Methods 803](#_Toc491435278)

[3.2.5.322.2.2 ObjectPath Methods 803](#_Toc491435279)

[3.2.5.323 Microsoft.SharePoint.Client.SpecialFolderType 803](#_Toc491435280)

[3.2.5.323.1 Field Values 803](#_Toc491435281)

[3.2.5.323.1.1 Attachment 803](#_Toc491435282)

[3.2.5.323.1.2 Photos 803](#_Toc491435283)

[3.2.5.323.1.3 CameraRoll 803](#_Toc491435284)

[3.2.5.323.1.4 Music 804](#_Toc491435285)

[3.2.5.323.1.5 Apps 804](#_Toc491435286)

[3.2.5.323.1.6 AppRoot 804](#_Toc491435287)

[3.2.5.324 Microsoft.SharePoint.Client.SPEffectiveInformationRightsManagementSettingsSource 804](#_Toc491435288)

[3.2.5.324.1 Field Values 804](#_Toc491435289)

[3.2.5.324.1.1 None 804](#_Toc491435290)

[3.2.5.324.1.2 File 804](#_Toc491435291)

[3.2.5.324.1.3 List 804](#_Toc491435292)

[3.2.5.324.1.4 Rule 804](#_Toc491435293)

[3.2.5.325 Microsoft.SharePoint.Client.SPInvitationCreationResult 805](#_Toc491435294)

[3.2.5.325.1 Properties 805](#_Toc491435295)

[3.2.5.325.1.1 Scalar Properties 805](#_Toc491435296)

[3.2.5.325.1.1.1 Email 805](#_Toc491435297)

[3.2.5.325.1.1.2 InvitationLink 805](#_Toc491435298)

[3.2.5.325.1.1.3 Succeeded 805](#_Toc491435299)

[3.2.5.325.1.2 ObjectPath Properties 805](#_Toc491435300)

[3.2.5.326 Microsoft.SharePoint.Client.SPMigrationJobStatus 805](#_Toc491435301)

[3.2.5.326.1 Properties 805](#_Toc491435302)

[3.2.5.326.1.1 Scalar Properties 805](#_Toc491435303)

[3.2.5.326.1.1.1 JobId 805](#_Toc491435304)

[3.2.5.326.1.1.2 JobState 806](#_Toc491435305)

[3.2.5.326.1.2 ObjectPath Properties 806](#_Toc491435306)

[3.2.5.326.2 Methods 806](#_Toc491435307)

[3.2.5.326.2.1 Scalar Methods 806](#_Toc491435308)

[3.2.5.326.2.2 ObjectPath Methods 806](#_Toc491435309)

[3.2.5.327 Microsoft.SharePoint.Client.SPMigrationJobStatusCollection 806](#_Toc491435310)

[3.2.5.327.1 Properties 806](#_Toc491435311)

[3.2.5.327.1.1 Scalar Properties 806](#_Toc491435312)

[3.2.5.327.1.2 ObjectPath Properties 806](#_Toc491435313)

[3.2.5.327.2 Methods 806](#_Toc491435314)

[3.2.5.327.2.1 Scalar Methods 806](#_Toc491435315)

[3.2.5.327.2.2 ObjectPath Methods 806](#_Toc491435316)

[3.2.5.328 Microsoft.SharePoint.Client.StorageMetrics 806](#_Toc491435317)

[3.2.5.328.1 Properties 807](#_Toc491435318)

[3.2.5.328.1.1 Scalar Properties 807](#_Toc491435319)

[3.2.5.328.1.1.1 LastModified 807](#_Toc491435320)

[3.2.5.328.1.1.2 TotalFileCount 807](#_Toc491435321)

[3.2.5.328.1.1.3 TotalFileStreamSize 807](#_Toc491435322)

[3.2.5.328.1.1.4 TotalSize 807](#_Toc491435323)

[3.2.5.328.1.2 ObjectPath Properties 807](#_Toc491435324)

[3.2.5.328.2 Methods 807](#_Toc491435325)

[3.2.5.328.2.1 Scalar Methods 807](#_Toc491435326)

[3.2.5.328.2.2 ObjectPath Methods 807](#_Toc491435327)

[3.2.5.329 Microsoft.SharePoint.Client.TenantAppInformation 807](#_Toc491435328)

[3.2.5.329.1 Properties 808](#_Toc491435329)

[3.2.5.329.1.1 Scalar Properties 808](#_Toc491435330)

[3.2.5.329.1.1.1 AppPrincipalId 808](#_Toc491435331)

[3.2.5.329.1.1.2 AppWebFullUrl 808](#_Toc491435332)

[3.2.5.329.1.1.3 CreationTime 808](#_Toc491435333)

[3.2.5.329.1.1.4 IconAbsoluteUrl 808](#_Toc491435334)

[3.2.5.329.1.1.5 IconFallbackAbsoluteUrl 808](#_Toc491435335)

[3.2.5.329.1.1.6 Id 808](#_Toc491435336)

[3.2.5.329.1.1.7 LaunchUrl 808](#_Toc491435337)

[3.2.5.329.1.1.8 PackageFingerprint 809](#_Toc491435338)

[3.2.5.329.1.1.9 ProductId 809](#_Toc491435339)

[3.2.5.329.1.1.10 RemoteAppUrl 809](#_Toc491435340)

[3.2.5.329.1.1.11 Status 809](#_Toc491435341)

[3.2.5.329.1.1.12 Title 809](#_Toc491435342)

[3.2.5.329.1.2 ObjectPath Properties 809](#_Toc491435343)

[3.2.5.330 Microsoft.SharePoint.Client.TenantAppInstance 809](#_Toc491435344)

[3.2.5.330.1 Properties 809](#_Toc491435345)

[3.2.5.330.1.1 Scalar Properties 809](#_Toc491435346)

[3.2.5.330.1.1.1 Id 809](#_Toc491435347)

[3.2.5.330.1.1.2 SiteId 810](#_Toc491435348)

[3.2.5.330.1.1.3 WebId 810](#_Toc491435349)

[3.2.5.330.1.2 ObjectPath Properties 810](#_Toc491435350)

[3.2.5.330.2 Methods 810](#_Toc491435351)

[3.2.5.330.2.1 Scalar Methods 810](#_Toc491435352)

[3.2.5.330.2.2 ObjectPath Methods 810](#_Toc491435353)

[3.2.5.331 Microsoft.SharePoint.Client.TenantAppUtility 810](#_Toc491435354)

[3.2.5.331.1 Properties 810](#_Toc491435355)

[3.2.5.331.1.1 Scalar Properties 810](#_Toc491435356)

[3.2.5.331.1.2 ObjectPath Properties 810](#_Toc491435357)

[3.2.5.331.2 Methods 810](#_Toc491435358)

[3.2.5.331.2.1 Scalar Methods 810](#_Toc491435359)

[3.2.5.331.2.1.1 GetAppPermissionDescriptions 811](#_Toc491435360)

[3.2.5.331.2.1.2 GetTenantAppInformationCollection 811](#_Toc491435361)

[3.2.5.331.2.2 ObjectPath Methods 811](#_Toc491435362)

[3.2.5.331.2.2.1 GetAppDetails 811](#_Toc491435363)

[3.2.5.331.2.2.2 GetAppIcon 811](#_Toc491435364)

[3.2.5.331.2.2.3 GetTenantAppInstance 812](#_Toc491435365)

[3.2.5.332 Microsoft.SharePoint.Client.TenantSettings 812](#_Toc491435366)

[3.2.5.332.1 Properties 812](#_Toc491435367)

[3.2.5.332.1.1 Scalar Properties 812](#_Toc491435368)

[3.2.5.332.1.1.1 CorporateCatalogUrl 812](#_Toc491435369)

[3.2.5.332.1.2 ObjectPath Properties 812](#_Toc491435370)

[3.2.5.332.1.2.1 Current 812](#_Toc491435371)

[3.2.5.332.2 Methods 813](#_Toc491435372)

[3.2.5.332.2.1 Scalar Methods 813](#_Toc491435373)

[3.2.5.332.2.2 ObjectPath Methods 813](#_Toc491435374)

[3.2.5.333 Microsoft.SharePoint.Client.UserResource 813](#_Toc491435375)

[3.2.5.333.1 Properties 813](#_Toc491435376)

[3.2.5.333.1.1 Scalar Properties 813](#_Toc491435377)

[3.2.5.333.1.2 ObjectPath Properties 813](#_Toc491435378)

[3.2.5.333.2 Methods 813](#_Toc491435379)

[3.2.5.333.2.1 Scalar Methods 813](#_Toc491435380)

[3.2.5.333.2.1.1 GetValueForUICulture 813](#_Toc491435381)

[3.2.5.333.2.1.2 SetValueForUICulture 814](#_Toc491435382)

[3.2.5.333.2.2 ObjectPath Methods 814](#_Toc491435383)

[3.2.5.334 Microsoft.SharePoint.Client.UserResourceScope 814](#_Toc491435384)

[3.2.5.334.1 Field Values 814](#_Toc491435385)

[3.2.5.334.1.1 Web 814](#_Toc491435386)

[3.2.5.334.1.2 List 814](#_Toc491435387)

[3.2.5.335 Microsoft.SharePoint.Client.UserResourceType 814](#_Toc491435388)

[3.2.5.335.1 Field Values 815](#_Toc491435389)

[3.2.5.335.1.1 SingleLine 815](#_Toc491435390)

[3.2.5.335.1.2 MultiLine 815](#_Toc491435391)

[3.2.5.336 Microsoft.SharePoint.Client.UserSharingCapabilities 815](#_Toc491435392)

[3.2.5.336.1 Field Values 815](#_Toc491435393)

[3.2.5.336.1.1 None 815](#_Toc491435394)

[3.2.5.336.1.2 CanShareInternally 815](#_Toc491435395)

[3.2.5.336.1.3 CanShareExternally 815](#_Toc491435396)

[3.2.5.336.1.4 CanUseReadonlyLink 815](#_Toc491435397)

[3.2.5.336.1.5 CanManageReadonlyLink 815](#_Toc491435398)

[3.2.5.336.1.6 CanUseReadWriteLink 816](#_Toc491435399)

[3.2.5.336.1.7 CanManageReadWriteLink 816](#_Toc491435400)

[3.2.5.336.1.8 CanUseOrganizationReadonlyLink 816](#_Toc491435401)

[3.2.5.336.1.9 CanManageOrganizationReadonlyLink 816](#_Toc491435402)

[3.2.5.336.1.10 CanUseOrganizationReadWriteLink 816](#_Toc491435403)

[3.2.5.336.1.11 CanManageOrganizationReadWriteLink 816](#_Toc491435404)

[3.2.5.337 Microsoft.SharePoint.Client.Utilities.WopiHostUtility 816](#_Toc491435405)

[3.2.5.337.1 Properties 816](#_Toc491435406)

[3.2.5.337.1.1 Scalar Properties 816](#_Toc491435407)

[3.2.5.337.1.2 ObjectPath Properties 817](#_Toc491435408)

[3.2.5.337.2 Methods 817](#_Toc491435409)

[3.2.5.337.2.1 Scalar Methods 817](#_Toc491435410)

[3.2.5.337.2.2 ObjectPath Methods 817](#_Toc491435411)

[3.2.5.337.2.2.1 GetWopiTargetPropertiesByUrl 817](#_Toc491435412)

[3.2.5.338 Microsoft.SharePoint.Client.Utilities.WopiProperties 817](#_Toc491435413)

[3.2.5.338.1 Properties 817](#_Toc491435414)

[3.2.5.338.1.1 Scalar Properties 817](#_Toc491435415)

[3.2.5.338.1.1.1 AccessToken 817](#_Toc491435416)

[3.2.5.338.1.1.2 AccessTokenTtl 817](#_Toc491435417)

[3.2.5.338.1.1.3 AppIconUrl 817](#_Toc491435418)

[3.2.5.338.1.1.4 ErrorMessageToDisplay 818](#_Toc491435419)

[3.2.5.338.1.1.5 RedirectUrl 818](#_Toc491435420)

[3.2.5.338.1.1.6 WebApplicationUrl 818](#_Toc491435421)

[3.2.5.338.1.2 ObjectPath Properties 818](#_Toc491435422)

[3.2.5.338.2 Methods 818](#_Toc491435423)

[3.2.5.338.2.1 Scalar Methods 818](#_Toc491435424)

[3.2.5.338.2.2 ObjectPath Methods 818](#_Toc491435425)

[3.2.5.339 Microsoft.SharePoint.Packaging.AppDetails 818](#_Toc491435426)

[3.2.5.339.1 Properties 818](#_Toc491435427)

[3.2.5.339.1.1 Scalar Properties 818](#_Toc491435428)

[3.2.5.339.1.1.1 EulaUrl 818](#_Toc491435429)

[3.2.5.339.1.1.2 PrivacyUrl 819](#_Toc491435430)

[3.2.5.339.1.1.3 Publisher 819](#_Toc491435431)

[3.2.5.339.1.1.4 ShortDescription 819](#_Toc491435432)

[3.2.5.339.1.1.5 SupportUrl 819](#_Toc491435433)

[3.2.5.339.1.2 ObjectPath Properties 819](#_Toc491435434)

[3.2.5.339.2 Methods 819](#_Toc491435435)

[3.2.5.339.2.1 Scalar Methods 819](#_Toc491435436)

[3.2.5.339.2.2 ObjectPath Methods 819](#_Toc491435437)

[3.2.5.340 Microsoft.SharePoint.Packaging.AppIconInfo 819](#_Toc491435438)

[3.2.5.340.1 Properties 820](#_Toc491435439)

[3.2.5.340.1.1 Scalar Properties 820](#_Toc491435440)

[3.2.5.340.1.1.1 Content 820](#_Toc491435441)

[3.2.5.340.1.1.2 MimeType 820](#_Toc491435442)

[3.2.5.340.1.2 ObjectPath Properties 820](#_Toc491435443)

[3.2.5.340.2 Methods 820](#_Toc491435444)

[3.2.5.340.2.1 Scalar Methods 820](#_Toc491435445)

[3.2.5.340.2.2 ObjectPath Methods 820](#_Toc491435446)

[3.2.5.341 Microsoft.SharePoint.WebControls.ModuleLink 820](#_Toc491435447)

[3.2.5.341.1 Properties 820](#_Toc491435448)

[3.2.5.341.1.1 Scalar Properties 820](#_Toc491435449)

[3.2.5.341.1.2 ObjectPath Properties 820](#_Toc491435450)

[3.2.5.341.2 Methods 820](#_Toc491435451)

[3.2.5.341.2.1 Scalar Methods 820](#_Toc491435452)

[3.2.5.341.2.2 ObjectPath Methods 821](#_Toc491435453)

[3.2.5.341.2.2.1 GetResourceManifestInformation 821](#_Toc491435454)

[3.2.5.342 Microsoft.SharePoint.WebControls.ResourceManifestInformation 821](#_Toc491435455)

[3.2.5.342.1 Properties 821](#_Toc491435456)

[3.2.5.342.1.1 Scalar Properties 821](#_Toc491435457)

[3.2.5.342.1.1.1 RequireJsScriptBlock 821](#_Toc491435458)

[3.2.5.342.1.1.2 ScenarioMapping 821](#_Toc491435459)

[3.2.5.342.1.2 ObjectPath Properties 821](#_Toc491435460)

[3.2.5.342.2 Methods 821](#_Toc491435461)

[3.2.5.342.2.1 Scalar Methods 821](#_Toc491435462)

[3.2.5.342.2.2 ObjectPath Methods 822](#_Toc491435463)

[3.2.5.343 Microsoft.SharePoint.Client.RecycleBinOrderBy 822](#_Toc491435464)

[3.2.5.343.1 Field Values 822](#_Toc491435465)

[3.2.5.343.1.1 Min 822](#_Toc491435466)

[3.2.5.343.1.2 DefaultOrderBy 822](#_Toc491435467)

[3.2.5.343.1.3 Title 822](#_Toc491435468)

[3.2.5.343.1.4 DirName 822](#_Toc491435469)

[3.2.5.343.1.5 Author 822](#_Toc491435470)

[3.2.5.343.1.6 DeletedDate 822](#_Toc491435471)

[3.2.5.343.1.7 Size 822](#_Toc491435472)

[3.2.5.343.1.8 DeletedBy 822](#_Toc491435473)

[3.2.5.343.1.9 None 823](#_Toc491435474)

[3.2.5.343.1.10 Max 823](#_Toc491435475)

[3.2.5.344 Microsoft.SharePoint.Client.Sharing.RemoveItemsFromSharedWithMeViewErrorCode 823](#_Toc491435476)

[3.2.5.344.1 Field Values 823](#_Toc491435477)

[3.2.5.344.1.1 Success 823](#_Toc491435478)

[3.2.5.344.1.2 InvalidListItem 823](#_Toc491435479)

[3.2.5.344.1.3 InvalidItemSharing 823](#_Toc491435480)

[3.2.5.344.1.4 UnableToRemoveItem 823](#_Toc491435481)

[3.2.5.345 Microsoft.SharePoint.Client.Sharing.SharedWithMeViewItemRemovalResult 823](#_Toc491435482)

[3.2.5.345.1 Properties 824](#_Toc491435483)

[3.2.5.345.1.1 Scalar Properties 824](#_Toc491435484)

[3.2.5.345.1.1.1 ErrorCode 824](#_Toc491435485)

[3.2.5.345.1.1.2 ErrorMessage 824](#_Toc491435486)

[3.2.5.345.1.1.3 Success 824](#_Toc491435487)

[3.2.5.345.1.2 ObjectPath Properties 824](#_Toc491435488)

[3.2.5.346 Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentQueryResult 824](#_Toc491435489)

[3.2.5.346.1 Properties 824](#_Toc491435490)

[3.2.5.346.1.1 Scalar Properties 824](#_Toc491435491)

[3.2.5.346.1.1.1 ComponentType 824](#_Toc491435492)

[3.2.5.346.1.1.2 Id 824](#_Toc491435493)

[3.2.5.346.1.1.3 Manifest 825](#_Toc491435494)

[3.2.5.346.1.1.4 ManifestType 825](#_Toc491435495)

[3.2.5.346.1.1.5 Name 825](#_Toc491435496)

[3.2.5.346.1.1.6 Status 825](#_Toc491435497)

[3.2.5.346.1.2 ObjectPath Properties 825](#_Toc491435498)

[3.2.5.347 Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentType 825](#_Toc491435499)

[3.2.5.347.1 Field Values 825](#_Toc491435500)

[3.2.5.347.1.1 Unknown 825](#_Toc491435501)

[3.2.5.347.1.2 WebPart 825](#_Toc491435502)

[3.2.5.347.1.3 Application 826](#_Toc491435503)

[3.2.5.347.1.4 Library 826](#_Toc491435504)

[3.2.5.348 Microsoft.SharePoint.ClientSideComponent.SPClientSideManifestType 826](#_Toc491435505)

[3.2.5.348.1 Field Values 826](#_Toc491435506)

[3.2.5.348.1.1 Unknown 826](#_Toc491435507)

[3.2.5.348.1.2 Component 826](#_Toc491435508)

[3.2.5.349 Microsoft.SharePoint.ClientSideComponent.SPClientSideQueryStatus 826](#_Toc491435509)

[3.2.5.349.1 Field Values 826](#_Toc491435510)

[3.2.5.349.1.1 Success 826](#_Toc491435511)

[3.2.5.349.1.2 ErrorNotFound 826](#_Toc491435512)

[3.2.5.349.1.3 ErrorDisabled 827](#_Toc491435513)

[3.2.5.349.1.4 ErrorInvalidManifest 827](#_Toc491435514)

[3.2.5.349.1.5 ErrorCustomScriptDisabled 827](#_Toc491435515)

[3.2.5.349.1.6 ErrorFeatureNotEnabled 827](#_Toc491435516)

[3.2.6 Timer Events 827](#_Toc491435517)

[3.2.7 Other Local Events 827](#_Toc491435518)

[4 Protocol Examples 828](#_Toc491435519)

[4.1 Get the Title of a Web 828](#_Toc491435520)

[4.2 Update the Description of a List 829](#_Toc491435521)

[4.3 Add a List to a ListCollection 830](#_Toc491435522)

[4.4 Add a Lookup Field 831](#_Toc491435523)

[4.5 Attempt to Delete a Site With an Account That Does Not Have Permissions for the Operation 833](#_Toc491435524)

[5 Security 834](#_Toc491435525)

[5.1 Security Considerations for Implementers 834](#_Toc491435526)

[5.2 Index of Security Parameters 834](#_Toc491435527)

[6 Appendix A: Product Behavior 835](#_Toc491435528)

[7 Change Tracking 845](#_Toc491435529)

[8 Index 848](#_Toc491435530)

# 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.

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

## Glossary

This document uses the following terms:

**absolute URL**: The full Internet address of a page or other World Wide Web resource. The absolute URL includes a protocol, such as "http," a network location, and an optional path and file name — for example, http://www.treyresearch.net/.

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

**alert**: An Internet message that is sent to subscribers automatically to notify them when user-defined criteria are met. Alerts are generated automatically when items such as documents, webpages, list items, sites, or other resources on a server are changed.

**anchor text**: The text that is included with a hyperlink to describe the target content of a hyperlink.

**app**: (1) See [**web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb).

(2) See [**SharePoint Add-in**](#gt_1a171365-2d99-48d4-a536-f8e534620f2c).

**app instance**: An instantiation of an [**app**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79) on a specific site.

**app package**: An implementation-specific file that specifies an [**app**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

**app principal**: Designates an authenticated entity that is not a user.

**app product identifier**: A unique designation that is shared by all versions of an [**app**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

**application**: A participant that is responsible for beginning, propagating, and completing an atomic transaction. An application communicates with a transaction manager in order to begin and complete transactions. An application communicates with a transaction manager in order to marshal transactions to and from other applications. An application also communicates in application-specific ways with a resource manager in order to submit requests for work on resources.

**attachment**: An external file that is included with an Internet message or associated with an item in a SharePoint list.

**authentication**: The act of proving an identity to a server while providing key material that binds the identity to subsequent communications.

**back-end database server**: A server that hosts data, configuration settings, and stored procedures that are associated with one or more applications.

**base field type**: An XML-based schema that defines the type of data, such as formatted text or an integer, that can be entered and stored in a field in a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). Every field in a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is derived from a specific base field type.

**base type**: An XML-based schema that defines the data and rendering fields that can be used in a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). Every list is derived from a specific base type.

**base view identifier**: An integer that uniquely identifies a view definition for a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**blind carbon copy (bcc) recipient**: An addressee whose name is not visible to other addressees of an Internet message.

**blog**: A website that contains a series of posts about a subject and is arranged in reverse chronological order. Also referred to as web log.

**Boolean**: An operation or expression that can be evaluated only as either true or false.

**Business Connectivity Services (BCS)**: A set of services that enables interaction and integration with back-end data in a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286), including external data and related services. BCS includes the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) service.

**Business Data Connectivity (BDC)**: A shared service that stores information about business application data that exists outside a server farm. It can be used to display business data in lists, Web Parts, search results, user profiles, and custom applications. Previously referred to as Business Data Catalog.

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

**calendar type**: A 2-byte integer value that specifies the type of calendar to use in a specific context.

**carbon copy (cc) recipient**: In an Internet message, an addressee whose name is visible to other addressees and is not necessarily expected to take any action. The message is for informational purposes only for that addressee.

**cascading style sheet (CSS)**: An extension to [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) that enables authors and users of HTML documents to attach style sheets to those documents, as described in [[CSS-LEVEL1]](https://go.microsoft.com/fwlink/?LinkId=99527) and [[CSS-LEVEL2]](https://go.microsoft.com/fwlink/?LinkId=114090). A style sheet includes typographical information about the appearance of a page, including the font for text on the page.

**change log**: A log of changes, such as add and delete, that are made to objects that are stored on a [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7). Applications can use this information to identify changes that occurred on those objects.

**change token**: A serialized token that can be used to determine whether changes occurred in the system. It can also be used to deserialize packages in the correct sequence during import or restore operations.

**check out**: The process of retrieving a writable copy of a file or project from a source repository. This locks the file for editing to prevent other users from overwriting or editing it inadvertently. See also check in.

**checked out**: A [**publishing level**](#gt_c703b8dc-3960-471c-86ba-c686f77f16dd) that indicates that a document has been created and locked for exclusive editing by a user in a version control system.

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

**claims provider**: A software component or service that can be used to issue a claim during sign-in operations and to display, resolve, and provide search capabilities for claims in a card selector.

**Collaborative Application Markup Language (CAML)**: An XML-based language that is used to describe various elements, such as queries and views, in sites that are based on SharePoint Products and Technologies.

**collation**: A set of rules that determines how data is compared, ordered, and presented.

**color scheme**: A table of color values that enables colors to be referenced by an index value in the table instead of a color value. See also color palette.

**column**: See field.

**computed field**: A field that can perform data manipulation and display functions by using the contents of other fields.

**configuration database**: A database that is stored on a [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7) and contains both persisted objects and site collection metadata for lookup purposes.

**content database**: A database that is stored on a [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7) and contains stored procedures, site collections, and the contents of those site collections.

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

**content type group**: A named category of [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) that is used to organize content types of a similar purpose.

**content type identifier**: A unique identifier that is assigned to a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

**content type order**: The sequence in which [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) are displayed.

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

**crawl**: The process of traversing a URL space to acquire items to record in a search catalog.

**crawler**: A process that browses and indexes content from a content source.

**Creator**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to create a new EntityInstance. The set of Fields that are required to create the EntityInstance is referred to as the Creator View.

**CSOM array**: An ordered collection of values that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The values are identified by their position and their position is determined by a zero-based integer index.

**CSOM binary**: An array of 8-bit, unsigned integers that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a string in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text.

**CSOM Boolean**: A [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) value that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. A CSOM Boolean value is either "true" or "false".

**CSOM DateTime**: An Int64 value that represents the number of 100-nanosecond time intervals that have elapsed since 12:00:00, January 1, 0001. It can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a string in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The value can represent time intervals through 23:59:59.9999999, December 31, 9999. It can also specify whether a local, [**UTC**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7), or no [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab) applies.

**CSOM dictionary**: An object that contains an unordered collection of key/value pairs that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. Each key in a CSOM dictionary has a unique name.

**CSOM Double**: A 64-bit, double-precision, floating-point value, which is the DOUBLE type described in [[MS-DTYP]](%5bMS-DTYP%5d.pdf#Section_cca2742956894a16b2b49325d93e4ba2), that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a number in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The range of CSOM Double values is from "-1.79769313486232e308" to "1.79769313486232e308".

**CSOM error**: An object that contains information about an error that occurred on a protocol server when processing a request.

**CSOM expando field**: A field that stores data for an instance of a [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e) and is not defined explicitly in the corresponding CSOM Object type.

**CSOM GUID**: A [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1), as described in [MS-DTYP], that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a string in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text.

**CSOM Int16**: A 16-bit, signed integer value, which is the INT16 type described in [MS-DTYP], that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a number in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The range of CSOM Int16 values is from "-32768" to "32767".

**CSOM Int32**: A 32-bit, signed integer value, which is the INT32 type described in [MS-DTYP], that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a number in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The range of CSOM Int32 values is from "-2147483648" to "2147483647".

**CSOM Int64**: A 64-bit, signed integer value, which is the INT64 type described in [MS-DTYP], that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a number in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The range of CSOM Int64 values is from "-9223372036854775808" to "9223372036854775807".

**CSOM Object**: An object that contains a set of members, which are named values and methods. It has a Unicode string value, which is referred to as a CSOM type name, that identifies its type.

**CSOM Stream**: A series of bytes that is used to transfer data and that supports reading, writing, and seeking.

**CSOM String**: A representation of text as a series of Unicode characters. It can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text.

**CSOM UInt32**: A 32-bit, unsigned integer value, which is the UINT32 type described in [MS-DTYP], that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a number in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The range of CSOM UInt32 values is from "0" to "4294967295".

**CSOM UInt64**: A 64-bit, unsigned integer value, which is the UINT64 type described in [MS-DTYP], that can be used in an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) request or as a number in [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) response text. The range of CSOM UInt64 values is from "0" to "18446744073709551615".

**culture name**: A part of a language identification tagging system, as described in [[RFC1766]](https://go.microsoft.com/fwlink/?LinkId=120475). Culture names adhere to the format "<languagecode2>-<country/regioncode2>." If a two-letter language code is not available, a three-letter code that is derived from [[ISO-639]](https://go.microsoft.com/fwlink/?LinkId=100294) is used.

**current user**: The user who is authenticated during processing operations on a front-end web server or a [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7).

**current version**: The latest version of a document that is available to a user, based on the permissions of the user and the publishing level of the document.

**custom action**: An extension to the user interface, such as a button on a toolbar or a link on a site settings page.

**custom list**: A user-defined list or enumeration that can be used to sort data in a worksheet.

**data connection library**: A SharePoint library that contains a collection of universal data connection (.udcx) and Office data connection (.odc) files.

**data source**: A database, web service, disk, file, or other collection of information from which data is queried or submitted. Supported data sources vary based on application and data provider.

**data validation**: The process of testing the accuracy of data; a set of rules that specify the type and range of data that users can enter.

**data validation criteria**: See [**data validation**](#gt_1db94de4-1b5d-40aa-a7d9-617078ebb237).

**datasheet**: A worksheet window that contains the source data for a Microsoft Graph chart object.

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

**default list view**: The view of a SharePoint list that the owner of the list selected to appear when users browse to the list without specifying a view.

**default mobile list view**: The view of a SharePoint list that the owner of the list selected to appear when users browse to the list by using a mobile device and without specifying a view.

**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.

**default view**: The layout and organization of a document or list that appears automatically when users open that document or display that list.

**dependent lookup field**: A lookup field that displays additional data for an item that is returned by a primary lookup field. See also [**primary lookup field**](#gt_93803490-1af4-43a7-b2fc-57fc2532ec26).

**designer**: A visual design surface for adding and arranging controls on a user form and writing code for those controls.

**dictionary**: A collection of key/value pairs. Each pair consists of a unique key and an associated value. Values in the dictionary are retrieved by providing a key for which the dictionary returns the associated value.

**discussion board**: A list in which users can read, post, and reply to messages from other users who are members of the same discussion board.

**discussion item**: A remark or response that is posted to an online discussion forum such as a newsgroup, SharePoint list, or electronic bulletin board.

**display form**: A form that is used to display a list item.

**display name**: A text string that is used to identify a principal or other object in the user interface. Also referred to as title.

**document**: An object in a [**content database**](#gt_e8b6c96a-3a69-490d-944a-f3ac955d1bd0) such as a file, folder, [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), or [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). Each object is identified by a [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95).

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

**document library**: A type of list that is a container for documents and folders.

**document template**: (1) A file that serves as the basis for new documents.

(2) A file that contains predefined formatting, layout, text, or graphics and that serves as the basis for new documents with a similar design or purpose.

**draft**: A version of a document or list item that does not have a publishing level of "Published" or "Checked Out".

**edit form**: A form that enables users to edit a list item.

**editor**: The user who last modified an item or document in a SharePoint list.

**email address**: A string that identifies a user and enables the user to receive Internet messages.

**empty GUID**: A 128-bit, 16-byte identification number that is represented by all zeros.

**End User License Agreement (EULA)**: A textual description of the terms that a user or administrator accepts before an update is installed. Each [**EULA**](#gt_f7cff23a-c905-4bce-a2b9-ab44b9ba5a73) is identified by a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1), and each update revision might be associated with a [**EULA**](#gt_f7cff23a-c905-4bce-a2b9-ab44b9ba5a73).

**endpoint**: A client that is on a network and is requesting access to a network access server (NAS).

**Entity**: A type of DataClass that represents a type of business data object that is stored in a line-of-business (LOB) system and whose instances have a persistent EntityInstanceId.

**EntityInstance**: A set of [**Field (3)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) values that have a unique identity that represents a specific instance of an Entity, and are stored in a line-of-business (LOB) system.

**event**: (1) Any significant occurrence in a system or an application that requires users to be notified or an entry to be added to a log.

(2) An action or occurrence to which an application might respond. Examples include state changes, data transfers, key presses, and mouse movements.

**event receiver**: A structured modular component that enables built-in or user-defined managed code classes to act upon objects, such as list items, [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), or content types, when specific triggering actions occur.

**exclusive lock**: A condition in which one protocol client or protocol server can read or write data, but no transaction can acquire a [**shared lock**](#gt_96c9845f-9bb7-415f-81fe-7aef83a486b2) on the data until the exclusive lock is released.

**external content type**: A type of DataClass object that is stored in a line-of-business (LOB) system and whose instances have a persistent EntityInstanceId. Also referred to as Entity.

**external list**: A container that is within a SharePoint site and that references a set of [**EntityInstances**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) that are sourced from a line-of-business (LOB) system. It has a customizable schema that is composed of one or more [**Fields (3)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**farm**: A group of computers that work together as a single system to help ensure that applications and resources are available. Also referred to as server farm.

**feature**: A package of SharePoint elements that can be activated or deactivated for a specific feature scope.

**feature identifier**: A [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) that identifies a [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4).

**feature scope**: The scope at which a [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) can be activated.

**field**: (1) An element or attribute in a data source that can contain data.

(2) A container for metadata within a SharePoint list and associated list items.

(3) The data elements that constitute an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) in a line-of-business (LOB) system.

**field definition**: The definition of a field in the [**Collaborative Application Markup Language (CAML)**](#gt_e7702f92-e7e2-47b1-9659-91b4e25dfe3d).

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

**field identifier**: A GUID that is used to identify a field.

**field internal name**: A string that uniquely identifies a field in a content type or a SharePoint list.

**field link**: A property that specifies a reference from a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) to a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) or [**field definition**](#gt_b9ccb552-70a9-4d7b-bbc5-e10aa6ad991c).

**field type**: A name that identifies the action or effect that a field has within a document. Examples of field types are Author, Page, Comments, and Date.

**file**: A single, discrete unit of content.

**file extension**: The sequence of characters in a [**file's**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) name between the end of the [**file's**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) name and the last "." character. Vendors of applications choose such sequences for the applications to uniquely identify [**files**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) that were created by those applications. This allows file management software to determine which application are to be used to open a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

**Finder**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return a collection of zero or more EntityInstances of a specific Entity. Finder input is defined by the FilterDescriptors that are contained in the Method that contains the Finder.

**first-stage Recycle Bin**: A container for items that were deleted. Items in this container are visible only to users with the appropriate permission and site collection administrators.

**floating-point number**: A number that is represented by a mantissa and an exponent according to a given base. The mantissa is typically a value between "0" and "1". To find the value of a floating-point number, the base is raised to the power of the exponent, and the mantissa is multiplied by the result.

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

**font**: An object that defines the graphic design, or formatting, of a collection of numbers, symbols, and letters. A font specifies the style (such as bold and strikeout), size, family (a typeface such as Times New Roman), and other qualities to describe how the collection is drawn.

**font scheme**: A combination of complementary fonts in a [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8).

**form**: A structured document with controls and spaces that are reserved for entering and displaying information. Forms can contain special coding for actions such as submitting and querying data.

**form digest**: An object that is inserted into a page and is used by a protocol server to validate client requests. The validation is specific to a user, site, and time period.

**form library**: A type of document library that is optimized for storing and displaying data in XML-based forms.

**form template (.xsn) file**: A cabinet (.cab) file with an .xsn file name extension that contains the files that comprise a form template.

**full URL**: A string of characters in a standardized format that identifies a document or resource on the World Wide Web.

**gallery**: A library that is used to store a collection of site resources, such as Web Parts, list templates, and site templates.

**globally unique identifier (GUID)**: A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [[RFC4122]](https://go.microsoft.com/fwlink/?LinkId=90460) or [[C706]](https://go.microsoft.com/fwlink/?LinkId=89824) must be used for generating the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). See also universally unique identifier (UUID).

**group**: A named collection of users who share similar access permissions or roles.

**hidden**: A condition of an object that prevents it from being displayed in rendered output.

**historical version**: Any version of a document or list item that is not one of the current versions. Depending on configuration settings, historical versions can be retained in a [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7), and might not be visible to specific users.

**host name**: The name of a physical server, as described in [[RFC952]](https://go.microsoft.com/fwlink/?LinkId=127731).

**HTTP method**: In an HTTP message, a token that specifies the method to be performed on the resource that is identified by the Request-URI, as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372).

**HTTP referer**: A string in an HTTP request-header field that identifies the address of the resource that is making the current request, as described in [RFC2616].

**hyperlink**: A relationship between two anchors, as described in [[RFC1866]](https://go.microsoft.com/fwlink/?LinkId=90296).

**Hypertext Markup Language (HTML)**: An application of the Standard Generalized Markup Language (SGML) that uses tags to mark elements in a document, as described in [[HTML]](https://go.microsoft.com/fwlink/?LinkId=89880).

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

**icon**: A graphical image used to supplement alphanumeric text in the visual identification of an object on a computer monitor. [**Icons**](#gt_ec8c21aa-5773-4c2e-99bb-d50e680e1870) are typically small, relative to the size of the area on which they are displayed.

**image**: A rectangular grid of pixels that has a definite height and a definite width and that can be displayed in a report.

**indexed field**: A field that stores values in a separate indexed table.

**Information Rights Management (IRM)**: A technology that provides persistent protection to digital data by using encryption, certificates, and [**authentication**](#gt_8e961bf0-95ba-4f58-9034-b67ccb27f317). Authorized recipients or users acquire a license to gain access to the protected files according to the rights or business rules that are set by the content owner.

**Input Method Editor (IME)**: An application that is used to enter characters in written Asian languages by using a standard 101-key keyboard. An IME consists of both an engine that converts keystrokes into phonetic and ideographic characters and a dictionary of commonly used ideographic words.

**item**: A unit of content that can be indexed and searched by a search application.

**item identifier**: An integer that uniquely identifies an item in a SharePoint list.

**JavaScript Object Notation (JSON)**: A text-based, data interchange format that is used to transmit structured data, typically in Asynchronous JavaScript + XML (AJAX) web applications, as described in [[RFC7159]](https://go.microsoft.com/fwlink/?linkid=842522). The JSON format is based on the structure of ECMAScript (Jscript, JavaScript) objects.

**key value pair (KVP)**: A set of two linked data items: a key that is an identifier for some data item, and a value that is a value associated with the data item for the identifier represented by the key.

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

**leaf name**: The segment of a URL that follows the last slash. If the resource is a directory, the leaf name can be an empty string.

**line-of-business (LOB) system**: A software system that is used to store business data and can also contain business rules and business logic that support business processes.

**link**: An attribute value that refers to a directory object and whose Attribute-Schema object specifies an even value for the linkId attribute. Also referred to as forward link.

**link bar**: A non-hierarchical, user-defined collection of graphical or text buttons that represent hyperlinks to pages within the same website and external sites.

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

**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.

**list form**: A page that enables users to create, view, or edit an item in a list.

**list identifier**: A GUID that is used to identify a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a site collection.

**list item**: An individual entry within a SharePoint list. Each list item has a schema that maps to fields in the list that contains the item, depending on the content type of the item.

**list item attachment**: A file that is contained within a list item and is stored in a folder in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) with the segment "Attachments".

**list item identifier**: See [**item identifier**](#gt_d67b771d-3de7-4425-b81f-ebe9f08ce5da).

**list schema**: The [**Collaborative Application Markup Language (CAML)**](#gt_e7702f92-e7e2-47b1-9659-91b4e25dfe3d) schema of a list.

**list server template**: A value that identifies the template that is used for a SharePoint list.

**list template**: An XML-based definition of list settings, including fields and views, and optionally list items. List templates are stored in .stp files in the content database.

**list view**: A named collection of settings for querying and displaying items in a SharePoint list. There are two types of views: Personal, which can be used only by the user who created the view; and Public, which can be used by all users who have permission to access to the site.

**list view page**: A Web Parts Page that displays a view of a SharePoint list.

**LobSystemInstance**: A type of MetadataObject that represents a specific deployed instance of a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286), as represented by a LobSystem. LobSystemInstances are contained by LobSystems. LobSystemInstance Properties describe how to connect to an instance of the LobSystem that contains them by providing information such as the server name, connection string, and authentication mode.

**locale**: A collection of rules and data that are specific to a language and a geographical area. A locale can include information about sorting rules, date and time formatting, numeric and monetary conventions, and character classification.

**locked**: The condition of a cell, worksheet, or other object that restricts edits or modifications to it by users.

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

**lookup field**: A field of the Lookup type that enables users to select an item from another data source.

**major version**: An iteration of a software component, document, or list item that is ready for a larger group to see, or has changed significantly from the previous major version. For an item on a SharePoint site, the [**minor version**](#gt_e0d99b53-9426-4a45-8429-b012184a4045) is always "0" (zero) for a major version.

**marketplace billing market**: A specifier that identifies the region of the credit card used to buy apps.

**marketplace content market**: A collection of metadata associated with each individual app that contains information such as the region and locale of the app.

**marketplace deployment identifier**: The identifier of the location to which app licenses are sold.

**marketplace license**: The proof of an app purchase that defines the usage pattern that is allowed for the app.

**marketplace license token**: An implementation-specific identifier used to serialize a marketplace license.

**master page**: An ASP.NET file that has a predefined layout that can include static text, [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) elements, and server controls.

**Meeting Workspace site**: A SharePoint site that is based on a Meeting Workspace site template and has a template ID value of "2". A Meeting Workspace site is used for planning, posting, and working together on meeting materials.

**member**: A user in the Members group of a site.

**membership**: The state or status of being a member of a member group. A membership contains additional metadata such as the privacy level that is associated with the membership.

**message body**: The main message text of an email message. A few properties of a Message object represent its message body, with one property containing the text itself and others defining its code page and its relationship to alternative body formats.

**MetadataCatalog**: A MetadataObject that represents a Metadata partition.

**MethodInstance**: A type of MetadataObject that associates a normalized or stereotypical semantic with a Method that represents a native API in a line-of-business (LOB) system. MethodInstances identify which part of the data that is returned by a Method is relevant for the semantic by defining a ReturnTypeDescriptor. MethodInstances are contained by Methods.

**MIME type**: A method that is used by protocol clients to associate files of a certain type with applications that can open or access files of that type.

**minor version**: An iteration of a software component, document, or list item that is in progress or has changed only slightly from the previous version. For an item on a SharePoint site, the minor version number is never "0" (zero) and is incremented for each new version of an item, unless a [**major version**](#gt_66583c77-eb07-43c4-8f1b-dd157580db46) is explicitly published. When minor versioning is disabled on a SharePoint site, only major version numbers are incremented, and the minor version is always "0" (zero).

**mobile device**: A small computing device that is easily portable and can be used in various environments.

**mobile list view**: A view of a SharePoint list that can be accessed by using a mobile device.

**moderation status**: A content approval status that indicates whether a list item was approved by a moderator.

**Mount**: To move physical media from a library slot to a drive.

**mount point**: See [**mounted folder**](#gt_7674e31e-66f7-462f-8064-df587f6af100).

**mounted folder**: A file system directory that contains a linked path to a second volume. A user can link a path on one volume to another. For example, given two volumes C: and D:, a user can create a directory or folder C:\mountD and link that directory with volume D:. The path C:\MountD can then be used to access the root folder of volume D:.

**navigation node**: An element in the navigational structure of a site. The element is a link or a series of links to a specific page in the site.

**new form**: A form that enables users to create a list item.

**notification**: A process in which a subscribing [**Session Initiation Protocol (SIP)**](#gt_586971aa-3b65-4de3-be93-1a9756777d89) client is notified of the state of a subscribed resource by sending a NOTIFY message to the subscriber.

**OAuth**: The OAuth 2.0 authorization framework [[RFC6749]](https://go.microsoft.com/fwlink/?LinkId=301486).

**object**: (1) A set of attributes, each with its associated values. Two attributes of an object have special significance: an identifying attribute and a parent-identifying attribute. An identifying attribute is a designated single-valued attribute that appears on every object; the value of this attribute identifies the object. For the set of objects in a replica, the values of the identifying attribute are distinct. A parent-identifying attribute is a designated single-valued attribute that appears on every object; the value of this attribute identifies the object's parent. That is, this attribute contains the value of the parent's identifying attribute, or a reserved value identifying no object. For the set of objects in a replica, the values of this parent-identifying attribute define a tree with objects as vertices and child-parent references as directed edges with the [**child**](#gt_bc38f35b-d253-4f8f-8dcc-095e3a211ae0) as an edge's tail and the parent as an edge's head. Note that an object is a value, not a variable; a replica is a variable. The process of adding, modifying, or deleting an object in a replica replaces the entire value of the replica with a new value. As the word replica suggests, it is often the case that two replicas contain "the same objects". In this usage, objects in two replicas are considered the same if they have the same value of the identifying attribute and if there is a process in place (replication) to converge the values of the remaining attributes. When the members of a set of replicas are considered to be the same, it is common to say "an object" as shorthand referring to the set of corresponding objects in the replicas.

(2) In COM, a software entity that implements the IUnknown interface and zero or more additional interfaces that may be obtained from each other using the IUnknown interface. A COM [**object**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) can be exposed to remote clients via the DCOM protocol, in which case it is also a DCOM object.

**Office Add-in**: A cloud-enabled app that integrates rich, scenario-focused content and services into an Office application or equivalent protocol client.

**owner**: A security principal who has the requisite permission to manage a security group.

**page type**: An integer that specifies the type of a page.

**paged view**: A view that supports one or more visual pages. A paged view is used to break large sets of data into smaller sets for increased performance and manageability.

**parent list**: A [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that contains a list item or list folder.

**parent site**: The site that is above the current site in the hierarchy of the site collection.

**permission**: A rule that is associated with an object and that regulates which users can gain access to the object and in what manner. See also [**rights**](#gt_893f71c9-f98e-4328-8662-9eb65467adca).

**permission level**: A set of permissions that can be granted to principals or SharePoint groups on an entity such as a site, list, folder, item, or document.

**personal view**: A view of a list that is created by a user for personal use. The view is unavailable to other users.

**personalization data**: Customized data that is stored for a set of [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be). The data can be shared by all users or be specific to an individual user.

**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.

**picture library**: A type of [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) that is optimized for storing digital pictures or graphics.

**policy**: A set of rules that governs all interactions with an object such as a document or item.

**policy tip**: A message that is displayed in the client user interface to inform the user that an email does not comply with an email policy configured on the server.

**presence**: A setting for the User field that determines whether instant-messaging status information appears with user names in that field.

**primary lookup field**: A lookup field that returns all of the information that is needed to support lookup operations from one list to another. See also [**dependent lookup field**](#gt_38691822-fbf7-48d3-bc51-cabb4bf8b79a).

**principal**: An authenticated entity that initiates a message or channel in a distributed system.

**ProgID**: An identifier that is used by the Windows registry to uniquely identify an object and is in the form OLEServerName.ObjectName, for example, "Excel.Sheet" or "PowerPoint.Slide."

**public view**: A view of a list that is available to all users who have permission to access that list.

**published**: A condition of portions of a workbook that are marked as being available to the user when that workbook is processed by a protocol server.

**publishing level**: An integer that is assigned to a document to indicate the publishing status of that version of the document.

**query**: A formalized instruction to a data source to either extract data or perform a specified action. A query can be in the form of a query expression, a method-based query, or a combination of the two. The data source can be in different forms, such as a relational database, [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882), or in-memory object. See also search query.

**Quick Launch**: A collection of links to lists and pages in a SharePoint site. By default, it appears on the side of all pages, except site administration pages, in the site.

**reading order**: The positioning of characters in words and the positioning of words in sentences. This can be left-to-right or right-to-left.

**recycle**: A process in which SMP releases a Session object so that the session identifier (SID) in use is made available again for a new session.

**Recycle Bin**: The location where deleted files are stored until they are either restored, if they were deleted erroneously, or destroyed permanently.

**Recycle Bin item**: An item that was deleted and appears in the Recycle Bin. Items in the Recycle Bin can include a document, a version of a document, a list item, a list, a folder, a folder containing lists, an attachment to a list item, or a version of a list item.

**recycling**: To permanently disable the creation of new component instances in an instance container.

**reference**: A means by which cells, objects, and chart elements can be referenced in a formula.

**regional settings**: See locale settings.

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

**relationship delete behavior**: An 8-bit integer that specifies how to delete a list item that has related child items. It can be a cascading operation, which deletes all related child items when the parent item is deleted, or a restrict operation, which indicates that a parent item can be deleted only after all related child items are deleted.

**relationship lookup field**: A [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) in a [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7) that defines a relationship between two SharePoint lists.

**resource folder**: A folder that contains images, templates, and other resource files for a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

**rich text**: Text that is formatted in the Rich Text Format, as described in [[MSFT-RTF]](https://go.microsoft.com/fwlink/?LinkId=120924).

**rights**: Tasks that a user is permitted to perform on a computer, site, domain, or other system resource. See also [**permission**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b).

**role**: A symbolic name that defines a class of users for a set of components. A role defines which users can call interfaces on a component.

**role assignment**: An association between a principal or a site group and a role definition.

**role definition**: A named set of permissions for a SharePoint site. See also [**permission level**](#gt_7b866a3b-aaf9-4c45-b627-7607747a2032).

**root element**: The top-level element in an [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882). It contains all other elements and is not contained by any other element, as described in [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598).

**root folder**: The folder at the top of a hierarchy of folders in a list.

**schema version**: An integer value that represents the version number of the schema for a deployment package.

**second-stage Recycle Bin**: A container for items that were deleted from a [**first-stage Recycle Bin**](#gt_970ee609-0ab2-458a-a2d1-b144afa187c5). Items in a second-stage Recycle Bin are visible only to site collection administrators.

**securable object**: An object that can have unique security permissions associated with it.

**security group**: A named group of principals on a SharePoint site.

**server-relative URL**: A relative URL that does not specify a scheme or host, and assumes a base URI of the root of the host, as described in [[RFC3986]](https://go.microsoft.com/fwlink/?LinkId=90453).

**Session Initiation Protocol (SIP)**: An application-layer control (signaling) protocol for creating, modifying, and terminating sessions with one or more participants. [**SIP**](#gt_586971aa-3b65-4de3-be93-1a9756777d89) is defined in [[RFC3261]](https://go.microsoft.com/fwlink/?LinkId=90410).

**shared lock**: A condition in which multiple protocol clients or protocol servers can read or write data concurrently, but no transaction can acquire an [**exclusive lock**](#gt_e7450f30-459b-4c1f-b2f0-2b619cbb499d) on the data until all of the shared locks have been released.

**SharePoint Add-in**: A cloud-enabled software module that uses HTML, JavaScript, or other industry-standard web technologies, in addition to possible server components, to integrate rich, scenario-focused content and services into SharePoint.

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

**site collection**: A set of websites that are in the same [**content database**](#gt_e8b6c96a-3a69-490d-944a-f3ac955d1bd0), have the same owner, and share administration settings. A site collection can be identified by a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) or the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12) for the site collection. Each site collection contains a top-level site, can contain one or more subsites, and can have a shared navigational structure.

**site collection administrator**: A user who has administrative permissions for a site collection.

**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 email messages, and indicate site membership for multiple users simultaneously.

**site collection quota**: An option for a site collection that enables administrators to set levels for maximum storage allowed, maximum number of users allowed, and warnings that are associated with the maximum levels.

**site content type**: A named and uniquely identifiable collection of settings and fields that store metadata for lists within individual sites.

**site definition**: A family of site definition configurations. Each site definition specifies a name and contains a list of associated site definition configurations.

**site definition configuration**: An XML-based definition of lists, features, modules, and other data that collectively define a type of SharePoint site. Site definition configurations are stored in the ONET.xml file.

**site identifier**: A GUID that is used to identify a site in a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

**site solution**: A deployable, reusable package that contains a set of features, site definitions, and assemblies that apply to sites, and can be enabled or disabled individually.

**site subscription**: A logical grouping of [**site collections**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that share a common set of features and service data.

**site template**: An XML-based definition of site settings, including formatting, lists, views, and elements such as text, graphics, page layout, and styles. Site templates are stored in .stp files in the content database.

**site-relative URL**: A URL that is relative to the site that contains a resource and does not begin with a leading slash (/).

**SOAP**: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) uses [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [[SOAP1.2-1/2003]](https://go.microsoft.com/fwlink/?LinkId=90521).

**SpecificFinder**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to return a specific EntityInstance of a specific Entity given its EntityInstanceId. SpecificFinder input is defined and ordered by the Identifiers that are associated with the Entity that is associated with the Method that is associated with the SpecificFinder.

**static CSOM method**: A class method that is accessed through the type name rather than an instance of the class.

**Status-Code**: A 3-digit integer result code in an HTTP response message, as described in [RFC2616].

**stream**: An element of a compound file, as described in [[MS-CFB]](%5bMS-CFB%5d.pdf#Section_53989ce47b054f8d829bd08d6148375b). A stream contains a sequence of bytes that can be read from or written to by an application, and they can exist only in storages.

**strong name**: A name that consists of the simple text name, version number, and culture information of an assembly, strengthened by a public key and a digital signature that is generated over the assembly.

**subscription**: The result of a SUBSCRIBE request from a [**Session Initiation Protocol (SIP)**](#gt_586971aa-3b65-4de3-be93-1a9756777d89) element.

**subsite**: A complete website that is stored in a named subdirectory of another website. The parent website can be the top-level site of a site collection or another subsite. Also referred to as subweb.

**survey list**: A list that is preconfigured and optimized for conducting surveys and compiling survey results into graphical views.

**task**: A component of an action that defines the work that actors need to do within a workflow system. An action can have zero or more tasks that are each assigned to different targets. There is a one-to-one correlation between tasks and targets.

**taxonomy navigation**: A hierarchy of navigation menus that represents the navigation menus in terms and term sets and are independent of where their underlying objects, such as pages, are located.

**template**: A file that contains pre-defined formatting including layout, text and graphics. It serves as the basis for new documents that have a similar look or purpose. See also form template (Microsoft InfoPath) and [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) (SharePoint Products and Technologies).

**theme**: A set of unified design elements, such as colors, fonts, graphics, and styles, that define the appearance of a website, document, or data visualization.

**thicket supporting file**: A file that contains a graphic element, a picture, or other media that is referenced by the thicket main file and is stored in the thicket folder.

**time zone**: A geographical area that observes the same local time. The local time has a positive, zero, or negative offset from [**Coordinated Universal Time (UTC)**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7). The offset can be different during standard time and daylight saving time.

**toolbar**: A row, column, or block of controls that represent tasks or commands within an application. A toolbar can be either a menu toolbar, which provides access to menu commands, or a basic toolbar, which contains buttons that provide shortcuts to tasks that are frequently accessed from menus.

**ToolTip**: A small pop-up window that provides brief context-sensitive help when users point to an item. Also referred to as ScreenTip.

**top-level site**: The first site in a site collection. All other sites within a site collection are child sites of the top-level site. The URL of the top-level site is also the URL of the site collection.

**TypeDescriptor**: A type of MetadataObject that describes a subset of the structure of a Parameter of a Method of the native API of a line-of-business (LOB) system. A TypeDescriptor can contain TypeDescriptors to form hierarchies that describe Parameters representing complex types, where the leaf TypeDescriptors describe simple or primitive types. A root TypeDescriptor, together with DefaultValues for leaf TypeDescriptors can be used to instantiate an instance of a Parameter value to send to a LOB system to execute a Method.

**uncustomized**: A condition of a document whose content is stored in a location other than the content database. If a document is uncustomized, the front-end web server determines the location of the content by using the SetupPath value for the document. Also referred to as ghosted.

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

**Uniform Resource Locator (URL)**: A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [[RFC1738]](https://go.microsoft.com/fwlink/?LinkId=90287).

**unique column constraint**: A property of a field that requires all of the values in that field to be unique.

**Updater**: A type of [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) that can be called to update an EntityInstance identified by a specified EntityInstanceId. The set of [**Fields (3)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that is required to update the EntityInstance is referred to as the Updater View.

**upgrade evaluation site collection**: A copy of the current [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), used to evaluate the functionality of a site collection after it is upgraded.

**URL encode**: The process of encoding characters that have reserved meanings for a [**Uniform Resource Locator (URL)**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1), as described in [RFC1738].

**user**: A person who employs a web browser requestor to access a WS resource.

**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**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7).

**user display name**: A user profile property that contains the preferred name of a user. See also [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700).

**user information list**: A list that contains items, each of which represents a security principal in a site collection. Each site collection has only one such list and it resides in the top-level site of the site collection.

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

**value**: A data element associated with a key.

**version**: See displayed version, [**historical version**](#gt_56e98ee1-9aaf-498f-b120-5fc43df95dcb), [**major version**](#gt_66583c77-eb07-43c4-8f1b-dd157580db46), and [**minor version**](#gt_e0d99b53-9426-4a45-8429-b012184a4045).

**view**: See form view (Microsoft InfoPath), [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) (SharePoint Products and Technologies), or [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) (Microsoft Business Connectivity Services).

**View**: A set of [**Fields (3)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of an [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb), or the schema of an Entity. An Entity can have several Views, each consisting of a different set of Fields, but all containing Identifier Fields. Views are associated with [**MethodInstances**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) and define the shape of a MethodInstance's input or output.

**view identifier**: A GUID that is used to uniquely identify a view.

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

**visual upgrade**: A feature that enables a protocol server to display an earlier version of a user interface to support backward compatibility with existing solutions.

**web application**: A container in a configuration database that stores administrative settings and entry-point [**URLs**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for [**site collections**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

**web discussion**: A component and add-in that enables users to enter comments about documents and pages without modifying the actual content of those documents or pages.

**web discussion comment**: An individual comment that is added to a web discussion.

**Web Distributed Authoring and Versioning Protocol (WebDAV)**: The Web Distributed Authoring and Versioning Protocol, as described in [[RFC2518]](https://go.microsoft.com/fwlink/?LinkId=90363) or [[RFC4918]](https://go.microsoft.com/fwlink/?LinkId=151240).

**Web Part**: A reusable component that contains or generates web-based content such as [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85), [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf), and scripting code. It has a standard property schema and displays that content in a cohesive unit on a webpage. See also Web Parts Page.

**Web Part identifier**: A GUID that identifies a Web Part.

**Web Part Page**: An ASP.NET webpage that includes Web Part controls that enable users to customize the page, such as specifying which information to display. Referred to as Web Parts Page in Microsoft SharePoint Foundation 2010.

**Web Part zone**: A structured HTML section of a Web Parts Page that contains zero or more Web Parts and can be configured to control the organization and format of those Web Parts.

**Web Part zone index**: An integer that specifies the relative position of a Web Part in a Web Part zone. Web Parts are positioned from the smallest to the largest zone index. If two or more Web Parts have the same zone index they are positioned adjacent to each other in an undefined order.

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

**Welcome page**: A page, such as default.aspx, that can be specified as the default redirect target when users browse to a URL without specifying a [**leaf name**](#gt_c3c1a51b-f3e1-40b2-8e48-ae956e1975f5).

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

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

**workflow history list**: A list that stores the history of actions or tasks for a business process.

**workflow identifier**: A GUID that is used to identify a workflow.

**workflow initiation form**: An implementation-specific file, typically an ASPX page, that is a part of a workflow. It contains fields and other elements that can be used to initiate a process for a list item, based on the rules and settings in a workflow template that is associated with the list that contains the item.

**workflow instance**: An instance of a workflow association that performs on a list item the process that is defined in a workflow template.

**workflow task**: An action or task in a sequence that is related to a built-in or user-defined business process.

**workflow task list**: A list that stores the sequence of actions or tasks for a business process.

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

**XML**: The Extensible Markup Language, as described in [[XML1.0]](https://go.microsoft.com/fwlink/?LinkId=90599).

**XML document**: A document object that is well formed, as described in [[XML10/5]](https://go.microsoft.com/fwlink/?LinkId=221669), and might be valid. An XML document has a logical structure that is composed of declarations, elements, comments, character references, and processing instructions. It also has a physical structure that is composed of entities, starting with the root, or document, entity.

**XML element**: An [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) structure that typically consists of a start tag, an end tag, and the information between those tags. Elements can have attributes and can contain other elements.

**XML fragment**: Lines of text that adhere to [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) tag rules, as described in [XML], but do not have a Document Type Definition (DTD) or schema, processing instructions, or any other header information.

**XML schema**: A description of a type of [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882) that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### 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.

[ECMA-262-1999] Ecma International, "ECMAScript Language Specification", Standard ECMA-262 3rd Edition - December 1999, [http://www.ecma-international.org/publications/files/ECMA-ST-ARCH/ECMA-262,%203rd%20edition,%20December%201999.pdf](https://go.microsoft.com/fwlink/?LinkId=153655)

[HTML] World Wide Web Consortium, "HTML 4.01 Specification", W3C Recommendation 24 December 1999, [http://www.w3.org/TR/html4/](https://go.microsoft.com/fwlink/?LinkId=89880)

[ISO-3166] International Organization for Standardization, "Codes for the representation of names of countries and their subdivisions -- Part1: Country codes", ISO 3166-1:2013, November 2013, [http://www.iso.org/iso/home/store/catalogue\_tc/catalogue\_detail.htm?csnumber=63545](https://go.microsoft.com/fwlink/?LinkId=89917)

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

[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](https://go.microsoft.com/fwlink/?LinkId=89920)

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

[MC-CSDL] Microsoft Corporation, "[Conceptual Schema Definition File Format](%5bMC-CSDL%5d.pdf#Section_c03ad8c3e8b74306af96a9e52bb3df12)".

[MS-CSOMREST] Microsoft Corporation, "[SharePoint Client Query OData Protocol](%5bMS-CSOMREST%5d.pdf#Section_1181c4b7abbe48de99208a2f5355af12)".

[MS-CSOM] Microsoft Corporation, "[SharePoint Client Query Protocol](%5bMS-CSOM%5d.pdf#Section_fd645da2fa284daab3cd8f4e506df117)".

[MS-ECTPWPS] Microsoft Corporation, "[External Content Type Picker Web Service Protocol](%5bMS-ECTPWPS%5d.pdf#Section_7f9a81b552fe4059ae282c8bf90c76fb)".

[MS-FPSE] Microsoft Corporation, "[FrontPage Server Extensions Remote Protocol](%5bMS-FPSE%5d.pdf#Section_1bbae50a7de945ea830d4e9caf8dfccd)".

[MS-FSSHTTPB] Microsoft Corporation, "[Binary Requests for File Synchronization via SOAP Protocol](%5bMS-FSSHTTPB%5d.pdf#Section_f59fc37d22324b14baac25f98e9e7b5a)".

[MS-FSSHTTP] Microsoft Corporation, "[File Synchronization via SOAP over HTTP Protocol](%5bMS-FSSHTTP%5d.pdf#Section_05fa7efd48ed48d58d8577995e17cc81)".

[MS-LCID] Microsoft Corporation, "[Windows Language Code Identifier (LCID) Reference](%5bMS-LCID%5d.pdf#Section_70feba9f294e491eb6eb56532684c37f)".

[MS-LISTSWS] Microsoft Corporation, "[Lists Web Service Protocol](%5bMS-LISTSWS%5d.pdf#Section_30b364cc38374e839ce81963292e2ee5)".

[MS-ODATA] Microsoft Corporation, "[Open Data Protocol (OData)](%5bMS-ODATA%5d.pdf#Section_2b686a1a9e1f456f80ff072a010fc278)".

[MS-SITESS] Microsoft Corporation, "[Sites Web Service Protocol](%5bMS-SITESS%5d.pdf#Section_2a65d575d55642968564a1738998824d)".

[MS-WPPS] Microsoft Corporation, "[Web Part Pages Web Service Protocol](%5bMS-WPPS%5d.pdf#Section_4a4c6550bd7e4f8fb964c1501183f90e)".

[MS-WSSCAML] Microsoft Corporation, "[Collaborative Application Markup Language (CAML) Structure](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6)".

[MS-WSSCAP] Microsoft Corporation, "[Windows SharePoint Services Collaborative Application Protocol](%5bMS-WSSCAP%5d.pdf#Section_1076b2de28354fe18d4cc078a9703fab)".

[MS-WSSFO2] Microsoft Corporation, "[Windows SharePoint Services (WSS): File Operations Database Communications Version 2 Protocol](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c)".

[MS-WSSFO3] Microsoft Corporation, "[Windows SharePoint Services (WSS): File Operations Database Communications Version 3 Protocol](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783)".

[MS-WSSHP] Microsoft Corporation, "[HTTP Windows SharePoint Services Headers Protocol](%5bMS-WSSHP%5d.pdf#Section_b371fcc5815c46a7a5049e240d157419)".

[MS-WSSTS] Microsoft Corporation, "[Windows SharePoint Services](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31)".

[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](https://go.microsoft.com/fwlink/?LinkId=90317)

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, [http://www.rfc-editor.org/rfc/rfc2616.txt](https://go.microsoft.com/fwlink/?LinkId=90372)

[RFC4646] Phillips, A., and Davis, M., Eds., "Tags for Identifying Languages", BCP 47, RFC 4646, September 2006, [http://www.rfc-editor.org/rfc/rfc4646.txt](https://go.microsoft.com/fwlink/?LinkId=123591)

[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](https://go.microsoft.com/fwlink/?LinkId=123096)

[RSS2.0] Winer, D., "RSS 2.0 Specification", Fall 2002, version 2.0.1: July 2003, [http://cyber.law.harvard.edu/rss/rss.html](https://go.microsoft.com/fwlink/?LinkId=113933)

### Informative References

[MS-BDCMFFS] Microsoft Corporation, "[Business Data Connectivity Model File Format](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a)".

## Overview

This protocol defines types, methods, and properties that protocol clients use to access [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), and other types of data associated with a collaboration server. The set of types and [**members**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) provide a means for remote clients to perform collaboration and communication [**tasks**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f), such as updating [**items**](#gt_91432874-9050-460a-b621-d77b75d31dee) or checking in [**documents**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

## 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]](%5bMS-CSOM%5d.pdf#Section_fd645da2fa284daab3cd8f4e506df117), and the SharePoint Client Query OData Protocol, as described in [[MS-CSOMREST]](%5bMS-CSOMREST%5d.pdf#Section_1181c4b7abbe48de99208a2f5355af12). This protocol specifies properties, methods, and types used to access a collaboration server as described in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31).

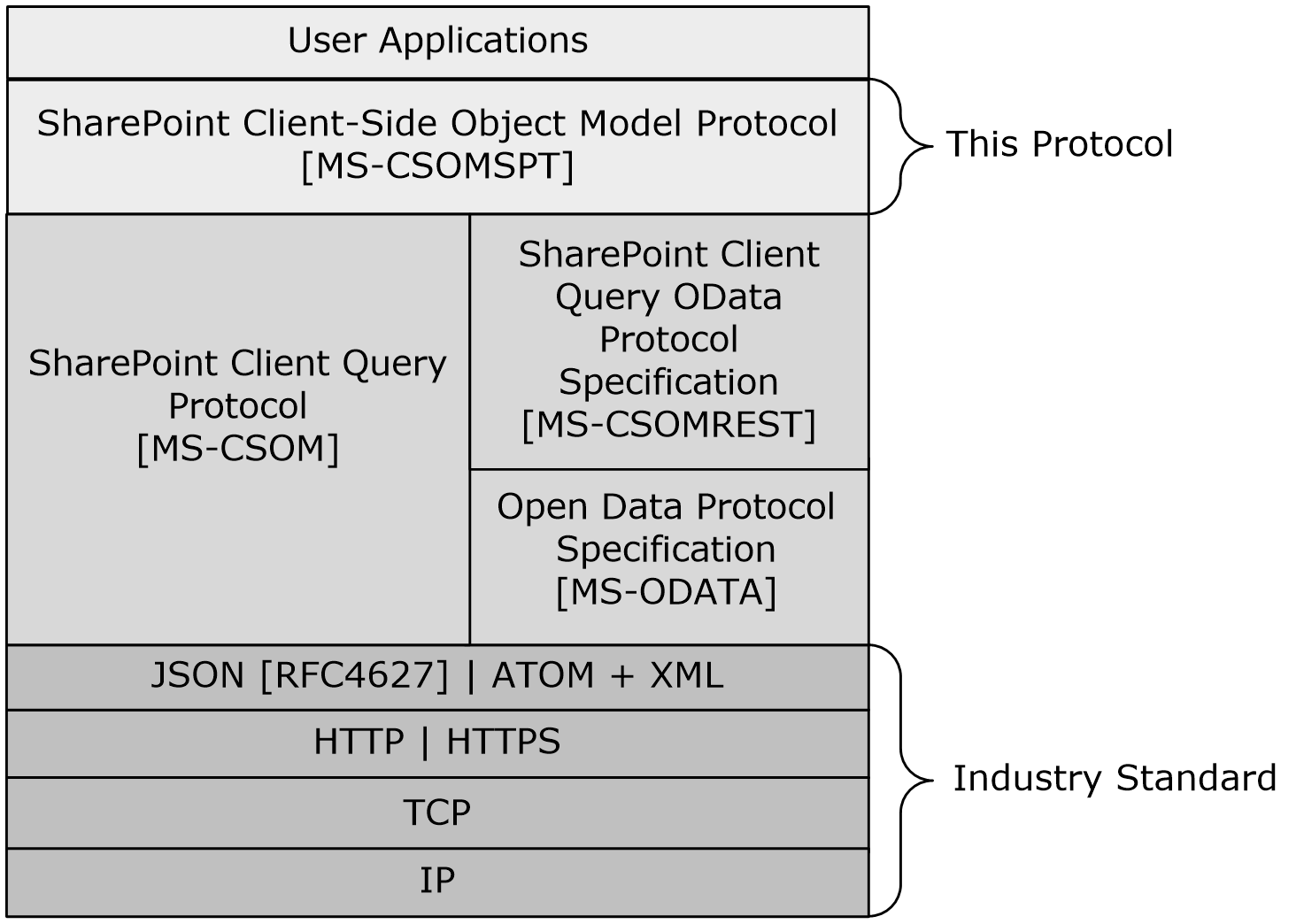


Figure 1: This protocol in relation to other protocols

## Prerequisites/Preconditions

This protocol operates against a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that is identified by a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) that is known by protocol clients. This protocol assumes that [**authentication**](#gt_8e961bf0-95ba-4f58-9034-b67ccb27f317) has been performed by underlying protocols.

## Applicability Statement

This protocol can be used by a protocol client to read data from, write data to, and execute operations against a protocol server. The protocol is optimized to enable a protocol client to specify the exact set of data and operations to perform in a single batch, making it suitable for situations where the connection speed between the protocol client and the protocol server can be slow.

Because of the complexity of the structure of requests and responses, it is not suitable for cases where the inputs and outputs need to be quickly understood and specified by a human. Because the protocol features minimal services for type and operation discovery, it is not suitable for protocol servers that implement a different set of functionality compared to the set of functionality described for a collaboration server in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31).

## Versioning and Capability Negotiation

This protocol operates in the context of the authenticated user that made a request to the service and in the context of a particular [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). Localization-specific properties, such as the title of a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), are returned by using the preferred language of the user, if available, or by using the default language of the site as a fallback. Certain properties can be read or written for specific locales, and are listed in the [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

## Vendor-Extensible Fields

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

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

## Standards Assignments

None.

# Messages

## Transport

Messages are transported by using the SharePoint Client Query Protocol, as specified in [[MS-CSOM]](%5bMS-CSOM%5d.pdf#Section_fd645da2fa284daab3cd8f4e506df117), or the SharePoint Client Query OData Protocol, as specified in [[MS-CSOMREST]](%5bMS-CSOMREST%5d.pdf#Section_1181c4b7abbe48de99208a2f5355af12).

## Message Syntax

### Common Exceptions

The protocol server 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 requires a [**form digest**](#gt_09ec38e8-f761-47c2-81db-bc62361e25d8) but the form digest in the **X-RequestDigest** HTTP header is not as same as the one generated by the protocol server. |
| -2130575252 | Microsoft.SharePoint.Exception | The protocol client sent a valid form digest in the **X-RequestDigest** ([[MS-WSSHP]](%5bMS-WSSHP%5d.pdf#Section_b371fcc5815c46a7a5049e240d157419) section 2.2.11 and [[MS-SITESS]](%5bMS-SITESS%5d.pdf#Section_2a65d575d55642968564a1738998824d) section 3.1.4) HTTP header, but the form digest is expired. |
| -2146232832 | Microsoft.SharePoint.SPException | The protocol server requires a form digest but the protocol client did not send an **X-RequestDigest** ([MS-WSSHP] section 2.2.11) HTTP header. |

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

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024891 | System.UnauthorizedAccessException | The user does not have [**permission**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to access a property, update a property or call a method. |

Besides the preceding exceptions and the exceptions that are listed for the specific properties or methods, the protocol server can return other exceptions to the protocol client, for which the protocol client could use the error message for display 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.

# Protocol Details

## Common Details

The protocol server endpoint is formed by appending "\_vti\_bin/client.svc/ProcessQuery" to the URL of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), for example <http://www.contoso.com/Repository/_vti_bin/client.svc/ProcessQuery>.

The length of a [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe) is the number of characters in its value. The length of a [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) is the number of elements in the array.

ObjectPath Properties are properties of type CSOM Object as defined in [[MS-CSOM]](%5bMS-CSOM%5d.pdf#Section_fd645da2fa284daab3cd8f4e506df117) section 2.2.4.4, Scalar Properties are 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.

## Server Details

### Abstract Data Model

This protocol shares the abstract data model used by the SharePoint Client Query protocol, as described in [[MS-CSOM]](%5bMS-CSOM%5d.pdf#Section_fd645da2fa284daab3cd8f4e506df117) section 3.1.1, to communicate with the protocol server.

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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), [**items**](#gt_91432874-9050-460a-b621-d77b75d31dee), navigation, and other structures as specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31).

#### 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) |
| --- | --- |
| [3.2.5.118](#Section_c783033cfd204328988b0a73a3accd27) Microsoft.SharePoint.Client.SecurableObject | [3.2.5.79](#Section_53507e45ff88440b9c3226b84992e6de) Microsoft.SharePoint.Client.List  [3.2.5.87](#Section_4a06e0a3275247b292f6970b437d1e17) Microsoft.SharePoint.Client.ListItem  [3.2.5.143](#Section_850bfecad9414c598a2f728a9d500fcd) Microsoft.SharePoint.Client.Web |
| [3.2.5.37](#Section_61a446ef3a4941b0a729656d860aaaa1) Microsoft.SharePoint.Client.Field | 3.2.5.38 Microsoft.SharePoint.Client.FieldCalculated  3.2.5.42 Microsoft.SharePoint.Client.FieldComputed  [3.2.5.44](#Section_09e3d64e904841949f9b3379e5da1a45) Microsoft.SharePoint.Client.FieldDateTime  [3.2.5.45](#Section_f3ff9caa1bbb4997bb738101e8a82316) Microsoft.SharePoint.Client.FieldGuid  [3.2.5.49](#Section_8bdbb5c4611b4dceb98bca3d3c74b3a8) Microsoft.SharePoint.Client.FieldLookup  [3.2.5.51](#Section_7da4458d94dd483bac45afaa2e3d3954) Microsoft.SharePoint.Client.FieldMultiChoice  [3.2.5.52](#Section_6d24ee3c9a6644ac9ca7d9037bee857a) Microsoft.SharePoint.Client.FieldMultiLineText  [3.2.5.53](#Section_2fca124e2bc146b3925c9a352baa7aac) Microsoft.SharePoint.Client.FieldNumber  [3.2.5.57](#Section_a5c3c47f302f4ad9a7cc767c213bf62b) Microsoft.SharePoint.Client.FieldText  [3.2.5.59](#Section_275b777e6d3a4745a21858ce91984e27) Microsoft.SharePoint.Client.FieldUrl  [3.2.5.185](#Section_29441872f43e48ac84c2760984dddc10) Microsoft.SharePoint.Client.FieldGeolocation |
| 3.2.5.49 Microsoft.SharePoint.Client.FieldLookup | [3.2.5.61](#Section_37e76f54dcdd4eb7877146afa22cb51c) Microsoft.SharePoint.Client.FieldUser |
| 3.2.5.51 Microsoft.SharePoint.Client.FieldMultiChoice | [3.2.5.40](#Section_dd68e4aabaae49c3b2e18da25d187471) Microsoft.SharePoint.Client.FieldChoice  3.2.5.54 Microsoft.SharePoint.Client.FieldRatingScale |
| 3.2.5.53 Microsoft.SharePoint.Client.FieldNumber | [3.2.5.43](#Section_d65ac97690a140b7aaaf604c9a86cd14) Microsoft.SharePoint.Client.FieldCurrency |
| [3.2.5.50](#Section_ce4a32b5dfa24bc99aba8a37ff86fddf) Microsoft.SharePoint.Client.FieldLookupValue | [3.2.5.63](#Section_7d72bfa5928f44ffb6889a02aee72dc5) Microsoft.SharePoint.Client.FieldUserValue |
| 3.2.5.7 Microsoft.SharePoint.Client.Change | 3.2.5.8 Microsoft.SharePoint.Client.ChangeAlert  3.2.5.10 Microsoft.SharePoint.Client.ChangeContentType  3.2.5.11 Microsoft.SharePoint.Client.ChangeField  3.2.5.12 Microsoft.SharePoint.Client.ChangeFile  3.2.5.13 Microsoft.SharePoint.Client.ChangeFolder  3.2.5.14 Microsoft.SharePoint.Client.ChangeGroup  3.2.5.15 Microsoft.SharePoint.Client.ChangeItem  3.2.5.16 Microsoft.SharePoint.Client.ChangeList  3.2.5.18 Microsoft.SharePoint.Client.ChangeSite  3.2.5.21 Microsoft.SharePoint.Client.ChangeUser  3.2.5.22 Microsoft.SharePoint.Client.ChangeView  3.2.5.23 Microsoft.SharePoint.Client.ChangeWeb |

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

This section describes the relationship between the abstract data model as specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.1.2.10 and the Entity Data Model as specified in [[MC-CSDL]](%5bMC-CSDL%5d.pdf#Section_c03ad8c3e8b74306af96a9e52bb3df12) section 1.0.[<1>](#Appendix_A_1" \o "Product behavior note 1) The mapping between Entity Data Model concepts and those of the AtomPub specification is specified in [[MS-ODATA]](%5bMS-ODATA%5d.pdf#Section_2b686a1a9e1f456f80ff072a010fc278) section [2.2.1](http://msdn.microsoft.com/en-us/library/ee1ad6fa-f5f6-4ac0-83df-2898b6b5c04d/). 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 | **Entity** |
| Lookup Field | **Integer and NavigationProperty** |
| Choice Field | **Multi-Value Property** |
| Attachments Field | **Bool** |
| ID Field | **EntityKey** |
| Content Type | **Entity** |
| All other fields of a list item | **NavigationProperty** |

#### Field Type to Client Scalar Property Type

The mapping from a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity field type to a client scalar property type is shown in the following table:

| Field Type | Client Scalar Property Type |
| --- | --- |
| Boolean  Attachments  AllDayEvent  CrossProjectLink  Recurrence | **bool** |
| Calculated  Choice  Computed  ContentTypeId  File  Note  Text  WorkflowEventType | **String** |
| Counter  Integer  ModStat  WorkflowStatus | **Int** |
| Currency  Number | **Double** |
| DateTime | **DateTime** |
| Error  PageSeparator  ThreadIndex  Threading | **Object** |
| Guid | **Guid** |
| Lookup  User | **Int or int[]** |
| GridChoice | **FieldRatingScaleQuestionAnswer[]** |
| MultiChoice | **String[]** |
| URL | **FieldUrlValue** |

### Timers

None.

### Initialization

None.

### Higher-Layer Triggered Events

None.

### Message Processing Events and Sequencing Rules

#### Microsoft.SharePoint.Client.AddFieldOptions

**ShortName:** SP.AddFieldOptions

**Flag:** true

Specifies the control settings while adding a field.

##### Field Values

###### DefaultValue

**Value:** 0

Same as **AddToDefaultContentType**.

###### AddToDefaultContentType

**Value:** 1

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

###### AddToNoContentType

**Value:** 2

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

###### AddToAllContentTypes

**Value:** 4

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

###### AddFieldInternalNameHint

**Value:** 8

Specifies adding an internal field name hint for the purpose of avoiding possible database locking or field renaming operations.

###### AddFieldToDefaultView

**Value:** 16

Specifies that a new field that is added to the specified list MUST also be added to the default list view.

###### AddFieldCheckDisplayName

**Value:** 32

Specifies to confirm that no other field has the same display name.

#### Microsoft.SharePoint.Client.BasePermissions

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

**ShortName:** SP.BasePermissions

Specifies a set of built-in permissions.

##### Properties

###### Scalar Properties

High

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**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 | **UseClientIntegration** | Enables user to launch client applications. |
| 6 | **UseRemoteAPIs** | Allow use of [**Simple Object Access Protocol (SOAP)**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958), [**WebDAV**](#gt_68024ef0-c00a-4ecf-8dba-42371b11bfeb), or [[MS-FPSE]](%5bMS-FPSE%5d.pdf#Section_1bbae50a7de945ea830d4e9caf8dfccd) to access the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |
| 7 | **ManageAlerts** | Manage [**alerts**](#gt_5038d42c-6611-4cfc-9c6a-d6a9d03a10e5) for all users of the site. |
| 8 | **CreateAlerts** | Create e-mail alerts. |
| 9 | **EditMyUserInfo** | Allows a user to change his or her user information, such as adding a picture. |
| 31 | **EnumeratePermissions** | Enumerate permissions on site, [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1), document, or [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). |

Low

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**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 | **ViewListItems** | View [**items**](#gt_91432874-9050-460a-b621-d77b75d31dee) in [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), [**documents**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) in [**document libraries**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35), and [**Web discussion comments**](#gt_acf11c4e-e9d5-416c-a865-83e1025e0345). |
| 2 | **AddListItems** | Add items to lists, documents to document libraries, and [**Web discussion**](#gt_2c981fa1-0c0a-46aa-9354-e025a70519be). |
| 3 | **EditListItems** | Edit items in lists, edit documents in document libraries, edit Web discussion comments in documents, and customize [**Web Part Pages**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682) in document libraries. |
| 4 | **DeleteListItems** | Delete items from a list (1), documents from a document library, and Web discussion comments in documents. |
| 5 | **ApproveItems** | Approve a [**minor version**](#gt_e0d99b53-9426-4a45-8429-b012184a4045) of a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) or document. |
| 6 | **OpenItems** | View the source of documents with [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) handlers from the protocol server. |
| 7 | **ViewVersions** | View past [**versions**](#gt_a00b8f2a-178a-4107-ac92-bdd95492f3e1) of a list item or document. |
| 8 | **DeleteVersions** | Delete past versions of a list item or document. |
| 9 | **CancelCheckout** | Discard or check in a document that is [**checked out**](#gt_9fb634eb-375e-4049-b5b5-2264962176ea) to another user. |
| 10 | **ManagePersonalViews** | Create, change, and delete [**personal views**](#gt_c963456c-6db6-4d30-93e4-3c49db5376e2) of lists. |
| 12 | **ManageLists** | Create and delete lists, add or remove columns in a list, and add or remove [**public views**](#gt_3f8f116e-7112-4fb2-b8ad-c920aa61205a) of a list. |
| 13 | **ViewFormPages** | View [**forms**](#gt_c7858bfa-d4d2-48a7-ac9c-d2e90fbe3590), [**views**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8), and application pages, and enumerate lists (1). |
| 17 | **Open** | Allow users to open a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), list, or [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) to access items inside that container. |
| 18 | **ViewPages** | View pages in a site (2). |
| 19 | **AddAndCustomizePages** | Add, change, or delete [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) pages or Web Part Pages, and edit the site by using a compatible editor. |
| 20 | **ApplyThemeAndBorder** | Apply a [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) or borders to the entire site. |
| 21 | **ApplyStyleSheets** | Apply a style sheet (.css file) to the site (2). |
| 22 | **ViewUsageData** | View reports on site (2) usage. |
| 23 | **CreateSSCSite** | Create a site by using the self-service [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) creation feature. |
| 24 | **ManageSubwebs** | Create [**subsites**](#gt_837ca080-dd1b-4fad-bee8-0fc7d22ea384) such as team sites, [**Meeting Workspace sites**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f), and Document Workspace sites (2). |
| 25 | **CreateGroups** | Create a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) of users that can be used anywhere within the site collection. |
| 26 | **ManagePermissions** | Create and change [**permission levels**](#gt_7b866a3b-aaf9-4c45-b627-7607747a2032) on the site and assign permissions to users  and groups (2). |
| 27 | **BrowseDirectories** | Enumerate files and folders in a site by using [[MS-FPSE]](%5bMS-FPSE%5d.pdf#Section_1bbae50a7de945ea830d4e9caf8dfccd) and [**WebDAV**](#gt_68024ef0-c00a-4ecf-8dba-42371b11bfeb) interfaces. |
| 28 | **BrowseUserInfo** | View information about users of the site (2). |
| 29 | **AddDelPrivateWebParts** | Add or remove personal [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on a Web Part Page. |
| 30 | **UpdatePersonalWebParts** | Update Web Parts to display personalized information. |
| 31 | **ManageWeb** | Grant the ability for a [**site collection administrator**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) to perform all administration [**tasks**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f) for the site as well as manage content, activate, deactivate, or edit properties of site scoped features through the [**object (2)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) model or through the user interface (UI). |

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.BaseType

**ShortName:** SP.BaseType

**Flag:** false

Specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.5.

##### Field Values

###### None

**Value:** -1

Specifies that no [**base type**](#gt_4e48c8c7-3d9a-4bdf-b540-202400bfc89b) is specified.

###### GenericList

**Value:** 0

Specifies a [**base type**](#gt_4e48c8c7-3d9a-4bdf-b540-202400bfc89b) for [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that do not correspond to another base type in this enumeration.

###### DocumentLibrary

**Value:** 1

Specifies a [**base type**](#gt_4e48c8c7-3d9a-4bdf-b540-202400bfc89b) for a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

###### Unused

**Value:** 2

Reserved. MUST NOT be used.

###### DiscussionBoard

**Value:** 3

Specifies a [**base type**](#gt_4e48c8c7-3d9a-4bdf-b540-202400bfc89b) that SHOULD NOT be used, but MAY[<2>](#Appendix_A_2" \o "Product behavior note 2) be used for a [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67).

###### Survey

**Value:** 4

Specifies a [**base type**](#gt_4e48c8c7-3d9a-4bdf-b540-202400bfc89b) for a [**survey list**](#gt_345344c1-0436-424c-b48d-01b33bdbfc23).

###### Issue

**Value:** 5

Specifies a base type for an issue tracking [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

#### Microsoft.SharePoint.Client.BrowserFileHandling

**ShortName:** SP.BrowserFileHandling

**Flag:** false

Specifies the mode of handling files in the list.

##### Field Values

###### Permissive

**Value:** 0

Permissive mode of handling files. Value is 0.

###### Strict

**Value:** 1

Strict mode of handling files. Value is 1.

#### Microsoft.SharePoint.Client.CalendarType

**ShortName:** SP.CalendarType

**Flag:** false

As specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.1.2.3.

##### Field Values

###### None

**Value:** 0

Specifies that the [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97) is not specified.

###### Gregorian

**Value:** 1

Specifies a Gregorian (localized) [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### Japan

**Value:** 3

Specifies a Japanese Emperor Era [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### Taiwan

**Value:** 4

Specifies a Year of Taiwan [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### Korea

**Value:** 5

Specifies a Korean Tangun Era [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### Hijri

**Value:** 6

Specifies a Hijri (Arabic Lunar) [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### Thai

**Value:** 7

Specifies a Thai [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### Hebrew

**Value:** 8

Specifies a Hebrew (Lunar) [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### GregorianMEFrench

**Value:** 9

Specifies a Gregorian (Middle East French) [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### GregorianArabic

**Value:** 10

Specifies a Gregorian (Arabic) [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### GregorianXLITEnglish

**Value:** 11

Specifies a Gregorian (transliterated English) [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### GregorianXLITFrench

**Value:** 12

Specifies a Gregorian (transliterated French) [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### KoreaJapanLunar

**Value:** 14

Specifies a Korean and Japanese Lunar [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### ChineseLunar

**Value:** 15

Specifies a Chinese Lunar [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### SakaEra

**Value:** 16

Specifies a Saka Era [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).

###### UmAlQura

**Value:** 23

Specifies an Umm al-Qura [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97).[<3>](#Appendix_A_3" \o "Product behavior note 3)

#### Microsoft.SharePoint.Client.CamlQuery

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

**ShortName:** SP.CamlQuery

Specifies a [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2) on a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

##### Properties

###### Scalar Properties

DatesInUtc

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2) returns dates in [**Coordinated Universal Time (UTC)**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7) format.

FolderServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of a [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) from which results are to be returned.

It MUST be a URL of server-relative form.

ListItemCollectionPosition

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

**Accessibility:** Read/Write

Specifies the information required to get the next page of data for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

ViewXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) that defines the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **ViewDefinition** type as defined in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.17.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.Change

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

**ShortName:** SP.Change

Base class for a change. installation.

##### Properties

###### Scalar Properties

ChangeToken

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

**Accessibility:** Read Only

Returns an SPChangeToken that represents the change.

ChangeType

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

**Accessibility:** Read Only

Returns an SPChangeType that indicates the type of change, including adding, updating, deleting, or renaming changes, but also moving items away from or into lists and folders.

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

SiteId Returns the Id of the site of the changed item

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Time Returns the time the item was modified. This is not the same as the time that the change was committed to the change log.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeAlert

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

**ShortName:** SP.ChangeAlert

Specifies a change from an [**alert**](#gt_5038d42c-6611-4cfc-9c6a-d6a9d03a10e5).

##### Properties

###### Scalar Properties

AlertId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the changed [**alert**](#gt_5038d42c-6611-4cfc-9c6a-d6a9d03a10e5).

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, asspecified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**alert**](#gt_5038d42c-6611-4cfc-9c6a-d6a9d03a10e5).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeCollection

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

**ShortName:** SP.ChangeCollection

Represents a collection of **Change** [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeContentType

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

**ShortName:** SP.ChangeContentType

Specifies a change on a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

ContentTypeId

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

**Accessibility:** Read Only

Identifies the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) that has changed.

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeField

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

**ShortName:** SP.ChangeField

Specifies a change on a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

FieldId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the changed [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**field identifier**](#gt_92319aca-26a8-4586-8765-5eff8bb45f28) in the change fields (2) item of the change collection is NULL. |

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.Change.Time, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change fields (2) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### 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.

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

UniqueId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) that changed.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**document identifier**](#gt_57833f30-88a2-4ab4-a07c-db88b9246f44) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeFolder

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

**ShortName:** SP.ChangeFolder

Specifies a change on a [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) not contained in a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) or [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

UniqueId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) that has changed.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**document identifier**](#gt_57833f30-88a2-4ab4-a07c-db88b9246f44) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeGroup

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

**ShortName:** SP.ChangeGroup

Specifies a change on a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

GroupId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Identifies the changed [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeItem

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

**ShortName:** SP.ChangeItem

Specifies a change on an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

Editor

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the editor of the changed [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

ItemId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Identifies the changed [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**item identifier**](#gt_d67b771d-3de7-4425-b81f-ebe9f08ce5da) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

ListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that contains the changed [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee). In the case of a change that includes moving the item between lists, **ListId** MUST contain the value it had before the move.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeList

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

**ShortName:** SP.ChangeList

Specifies a change on a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

ListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the changed [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) contained in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeQuery

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

**ShortName:** SP.ChangeQuery

Defines a query that is performed against the change log.

##### Properties

###### Scalar Properties

Add

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether add changes are included in the query.

Alert

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to alerts are included in the query.

ChangeTokenEnd

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

**Accessibility:** Read/Write

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

ChangeTokenStart

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

**Accessibility:** Read/Write

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

ContentType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

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

DeleteObject

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether delete changes are included in the query.

FetchLimit

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read/Write

Specifies the maximum number of changes to fetch from the database.

Field

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

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

File

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to files are included in the query.

Folder

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to folders are included in the query.

Group

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to groups are included in the query.

GroupMembershipAdd

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether adding users to groups is included in the change query.

GroupMembershipDelete

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether deleting users from groups is included in the change query.

Item

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether general changes to list or site items are included in the query.

LatestFirst

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether or not logs are returned in chronological order or in reverse order. If true, the latest logs are returned first.

List

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to lists are included in the query.

Move

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether move changes are included in the query.

Navigation

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

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

Rename

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether renaming changes are included in the query.

Restore

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

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

RoleAssignmentAdd

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether adding role assignments is included in the query.

RoleAssignmentDelete

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether deleting role assignments is included in the query.

RoleDefinitionAdd

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether adding role definitions is included in the query.

RoleDefinitionDelete

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether deleting role definitions is included in the query.

RoleDefinitionUpdate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether modifying role definitions is included in the query.

SecurityPolicy

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

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

Site

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

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

SystemUpdate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes that are global within the scope of the change collection are included in the query.

Update

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether update changes are included in the query.

User

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to users are included in the query.

View

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to views are included in the query.

Web

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to Web sites are included in the query.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ChangeSite

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

**ShortName:** SP.ChangeSite

Specifies a change on a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a)

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](#Section_d128d5068c514935a2cf0126210bd38b).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### 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**](#gt_bb8a8b33-35c9-41ec-b7bd-45f5cf124c4c). Client applications can use the [**change token**](#gt_70bf988c-6991-442c-850c-fb6c5ab7f5bf) as a starting point for retrieving changes.

##### Properties

###### Scalar Properties

StringValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Contains the serialized representation of the [**change token**](#gt_70bf988c-6991-442c-850c-fb6c5ab7f5bf) generated by the protocol server. When setting **StringValue**, the protocol client MUST use a value previously returned by the protocol server.

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**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).
4. The time of the change token in 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 [**content database**](#gt_e8b6c96a-3a69-490d-944a-f3ac955d1bd0). |
| 1 | The change token refers to a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa). |
| 2 | The change token refers to a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |
| 3 | The change token refers to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). |

**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**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa) 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**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161). |

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ChangeType

**ShortName:** SP.ChangeType

**Flag:** false

Enumeration of the possible types of changes.

##### Field Values

###### NoChange

**Value:** 0

Indicates that no change has taken place.

###### Add

**Value:** 1

Specifies that an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) has been added within the scope of a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), or [**content database**](#gt_e8b6c96a-3a69-490d-944a-f3ac955d1bd0).

###### Update

**Value:** 2

Specifies that an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) has been modified within the scope of a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), or [**content database**](#gt_e8b6c96a-3a69-490d-944a-f3ac955d1bd0).

###### DeleteObject

**Value:** 3

Specifies that an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) has been deleted within the scope of a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), or [**content database**](#gt_e8b6c96a-3a69-490d-944a-f3ac955d1bd0).

###### Rename

**Value:** 4

The leaf in a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) has been renamed.

###### MoveAway

**Value:** 5

Specifies that a non-leaf segment within a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) has been renamed. The [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) was moved away from the location within the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) specified by the change.

###### MoveInto

**Value:** 6

Specifies that a non-leaf segment within a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) has been renamed. The [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) was moved into the location within the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) specified by the change.

###### Restore

**Value:** 7

Specifies that an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) has restored from a backup or from the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3).

###### RoleAdd

**Value:** 8

Specifies that a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has been added.

###### RoleDelete

**Value:** 9

Specifies that a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has been deleted.

###### RoleUpdate

**Value:** 10

Specifies that a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has been updated.

###### AssignmentAdd

**Value:** 11

Specifies that a user has been given permissions to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). The list MUST have different permissions from its parent.

###### AssignmentDelete

**Value:** 12

Specifies that a user has lost permissions to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). The list MUST have different permissions from its parent.

###### MemberAdd

**Value:** 13

Specifies that a user has been added to a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

###### MemberDelete

**Value:** 14

Specifies that a user has been removed from a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

###### SystemUpdate

**Value:** 15

Specifies that a change has been made to an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) by using the protocol server method.

###### Navigation

**Value:** 16

Specifies that a change in the navigation structure of a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) has been made.

###### ScopeAdd

**Value:** 17

Specifies that a change in [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) scope has been made to break inheritance from the parent of an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

###### ScopeDelete

**Value:** 18

Specifies that a change in permissions scope has been made to revert back to inheriting [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) from the parent of an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

###### ListContentTypeAdd

**Value:** 19

Specifies that a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) has been added.

###### ListContentTypeDelete

**Value:** 20

Specifies that a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) has been deleted.

###### Dirty

**Value:** 21

Specifies that this item has a pending modification due to an operation on another item.

#### Microsoft.SharePoint.Client.ChangeUser

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

**ShortName:** SP.ChangeUser

Specifies a change on a user.

##### Properties

###### Scalar Properties

Activate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) and only has browse [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b), the user is in an inactive state. However, once the user can author [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3), add [**documents**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b), be assigned [**tasks**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f), or make any contribution to the site, the user is in an active state.

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

UserId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Uniquely identifies the changed user.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeView

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

**ShortName:** SP.ChangeView

Specifies a change on a [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

ListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that contains the changed [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

ViewId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the changed [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the changed [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ChangeWeb

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

**ShortName:** SP.ChangeWeb

Specifies a change on a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

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](#Section_b131b81d68164a318590e45f8f1df95a).

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](#Section_d128d5068c514935a2cf0126210bd38b).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.SiteId**, as specified in section [3.2.5.7.1.1.3](#Section_86703ec7874743c0800951569b1f2122).

Time

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Change.Time**, as specified in section [3.2.5.7.1.1.4](#Section_fd8d290cb5374fa4b78edeaada9dc3c5).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that has changed.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) in the change [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) item of the change collection is NULL. |

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.CheckinType

**ShortName:** SP.CheckinType

**Flag:** false

Specifies the type of check in for a file.

##### Field Values

###### MinorCheckIn

**Value:** 0

Incremented as a minor version. Value=0.

###### MajorCheckIn

**Value:** 1

Incremented as a major version. Value=1.

###### OverwriteCheckIn

**Value:** 2

Overwrite the file. Value=2.

#### Microsoft.SharePoint.Client.CheckOutType

**ShortName:** SP.CheckOutType

**Flag:** false

An enumeration describing the different checkout states for the file, independent of any lock state.

##### Field Values

###### Online

**Value:** 0

The file is checked out for editing on the server.

###### Offline

**Value:** 1

The file is checked out for editing on the local computer.

###### None

**Value:** 2

The file is not checked out.

#### Microsoft.SharePoint.Client.ChoiceFormatType

**ShortName:** SP.ChoiceFormatType

**Flag:** false

Specifies how options for how to display selections in a choice field.

##### Field Values

###### Dropdown

**Value:** 0

Drop-down list box.

###### RadioButtons

**Value:** 1

Option buttons.

#### Microsoft.SharePoint.Client.ContentType

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

**ShortName:** SP.ContentType

Specifies a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description of the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

It MUST NOT be NULL.

DisplayFormTemplateName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of a custom [**display form**](#gt_29d22b2c-1ba3-4b4b-bcfa-3f8a7ed4f278) template to use for [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that have been assigned the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

DisplayFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of a custom [**display form**](#gt_29d22b2c-1ba3-4b4b-bcfa-3f8a7ed4f278) to use for [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that have been assigned the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

DocumentTemplate

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the file path to the [**document template (1)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff) used for a new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that has been assigned the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

It MUST NOT be NULL. It MUST be either an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85), a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b), or a URL relative to the content type [**resource folder**](#gt_43df7dda-3c1f-4a62-8350-baa99bbfa92b) for the content type

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575338 | Microsoft.SharePoint.SPException | [**List**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is not found or has been deleted |

DocumentTemplateUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**document template (1)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff) assigned to the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

EditFormTemplateName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of a custom [**edit form**](#gt_65fa851d-924c-4a8a-ae37-b6a5a8ebd6fe) [**template**](#gt_159ca22f-c24d-4c6d-b08a-3d4c4c923953) to use for [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that have been assigned the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

EditFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the URL of a custom [**edit form**](#gt_65fa851d-924c-4a8a-ae37-b6a5a8ebd6fe) to use for [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that have been assigned the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**content type group**](#gt_1455d6e0-8d2a-4a47-897a-41780cf3b195) for the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

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

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) is unavailable for creation or usage directly from a user interface.

Id

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

**Accessibility:** Read Only

Specifies an identifier for the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) as specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.1.2.8.1.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

It MUST NOT be NULL.

NewFormTemplateName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of a custom [**new form**](#gt_17416672-fc37-48a4-aead-9a0c3e538188) template to use for [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that have been assigned the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

NewFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of a custom [**new form**](#gt_17416672-fc37-48a4-aead-9a0c3e538188) to use for [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that have been assigned the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

ReadOnly

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether changes to the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) properties are denied.

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) that represents the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a server-relative path to the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) scope of the content type.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the JSLink for the content type custom form template.[<4>](#Appendix_A_4" \o "Product behavior note 4)

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

**Sealed**[<5>](#Appendix_A_5" \o "Product behavior note 5) specifies whether the content type is sealed. Only a [**site collection administrator**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) can set this value.

StringId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

A string representation of the value of the **Id** (section [3.2.5.27.1.1.10](#Section_24f5ebc2ac6f42e2a6ab74ed7052ef65)).[<6>](#Appendix_A_6" \o "Product behavior note 6)

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the unlocalized schema XML for the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

MobileDisplayFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the URL of a custom mobile Display form page to use for items assigned this content type.

MobileEditFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the URL of a custom mobile edit form page to use for items assigned this content type.

MobileNewFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the URL of a custom mobile new form page to use for items assigned this content type.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the SP.UserResource object (section [3.2.5.333](#Section_261db9d4ae51483cb3871ff1ab7e7eae)) for the description of this content type.

FieldLinks

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

**Accessibility:** Read Only

Specifies the collection of [**field links**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd) for the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

Fields

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

**Accessibility:** Read Only

Specifies the collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

NameResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Specifies the SP.UserResource object for the name of this content type.

Parent

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

**Accessibility:** Read Only

Specifies the parent [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) of the content type.

WorkflowAssociations

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

**Accessibility:** Read Only

Specifies the collection of [**workflow associations**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) for the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

**Parameters:** None

Update

**Return Type:** None

Updates the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d), and any [**child**](#gt_bc38f35b-d253-4f8f-8dcc-095e3a211ae0) [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ContentTypeCollection

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

**ShortName:** SP.ContentTypeCollection

Represents a collection of [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Adds a new [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) to the collection and returns a [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) 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](#Section_89b05715889747eba0119e66cc84c702) 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 **Name** property of *parameters*exists in the collection. |

AddExistingContentType

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

Adds an existing [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) 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**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) 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. |

GetById

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

Returns the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) with the given identifier from the collection. If a content type with the given identifier is not found in the collection, the server MUST return null.

**Parameters:**

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

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

It MUST conform to the following ABNF as defined in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096):

1. nonzero-digit = "1" / "2" / "3" / "4" / "5" / "6" / "7" / "8" / "9"
2. digit = "0" / nonzero-digit
3. nonzero-hexdigit = nonzero-digit / "A" / "B" / "C" / "D" / "E" / "F"
4. hexdigit = "0" / nonzero-hexdigit
5. id = \*(nonzero-hexdigit hexdigit / "0" nonzero-hexdigit)
6. parentids = \*(16(hexdigit hexdigit))
7. contentTypeId = id [ "00" parentids]

AddAvailableContentType

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

Adds the specified [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) to the content type collection.

**Parameters:**

*contentTypeId:* Specifies the identifier of the content type to be added to the content type collection. It MUST exist in the web's available content types.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| 183 | Microsoft.SharePoint.SPException | A ContentType with the same name exists. |

#### 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**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description of the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) to be constructed.

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**content type group**](#gt_1455d6e0-8d2a-4a47-897a-41780cf3b195) of the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) to be constructed.

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

Id

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the **ContentTypeId** (section [3.2.5.30](#Section_43b55c315ff3435cb7f08ef1006d07b1)) of the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d)to be constructed.

This property MUST NOT be set at the same time as the **ParentContentType** (section [3.2.5.29.1.2.1](#Section_89b05715889747eba0119e66cc84c702)) property.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) to be constructed.

It MUST NOT be NULL.

###### ObjectPath Properties

ParentContentType

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

**Accessibility:** Read/Write

Specifies the parent [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) for the content type to be constructed.

The [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) the parent content type belongs to MUST be null.

#### Microsoft.SharePoint.Client.ContentTypeId

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

**ShortName:** SP.ContentTypeId

Represents the [**content type identifier**](#gt_b9e86552-0bd2-49f2-acea-a94af2842587) (ID) of a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

##### Properties

###### Scalar Properties

StringValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Hexadecimal string value of [**content type identifier**](#gt_b9e86552-0bd2-49f2-acea-a94af2842587). String value MUST start with "0x".

It MUST NOT be NULL.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.CustomizedPageStatus

**ShortName:** SP.CustomizedPageStatus

**Flag:** true

Specifies the customization (ghost) status of the SPFile.

##### Field Values

###### None

**Value:** 0

The page was never cached. Value is 0.

###### Uncustomized

**Value:** 1

The page is cached and has not been customized. Value is 1.

###### Customized

**Value:** 2

The page was cached but has been customized. Value is 2.

#### Microsoft.SharePoint.Client.DateTimeFieldFormatType

**ShortName:** SP.DateTimeFieldFormatType

**Flag:** false

Specifies the format to use in displaying date and time fields.

##### Field Values

###### DateOnly

**Value:** 0

Only the date is displayed.

###### DateTime

**Value:** 1

Both the date and the time are displayed.

#### Microsoft.SharePoint.Client.DraftVisibilityType

**ShortName:** SP.DraftVisibilityType

**Flag:** false

Specifies the kind of user who can view the minor version of a document draft.

##### Field Values

###### Reader

**Value:** 0

Reader. Value = 0.

###### Author

**Value:** 1

Author. Value = 1.

###### Approver

**Value:** 2

Approver. Value = 2.

#### Microsoft.SharePoint.Client.Feature

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

**ShortName:** SP.Feature

The top level object representing a SharePoint Feature activation.

The presence of a Feature object in a collection at the server farm, Web application, site collection, or Web site levels indicates that the feature is activated. Lack of a Feature object indicates that the object has not been activated.   
  
Use the Features properties of the Site (section [3.2.5.119](#Section_0fa9ce5a5fe54a19a3116f2737db140d)) and Web (section [3.2.5.143](#Section_850bfecad9414c598a2f728a9d500fcd)) classes to get the collection of features that are activated in the server farm, Web application, site collection, or Web site. Use the Site (section [3.2.5.110.1.2.3](#Section_dc321e12e07a4107bf3fd14d631359ca)) and Web (section [3.2.5.110.1.2.4](#Section_2256a519bc4e47bd9095c2c7c16162db)) properties of the RequestContext (section [3.2.5.110](#Section_11735396124d48d7a3e389d0117b532e)) class to get the collection of features for the current site collection or site.

The DisplayName property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

DefinitionId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Gets the GUID that identifies this feature.

It MUST NOT be NULL.

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the display name of this feature.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FeatureCollection

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

**ShortName:** SP.FeatureCollection

Represents a collection of activated [**features**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Remove

**Return Type:** None

Removes the [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) from the collection of features.

**Parameters:**

*featureId:* The [**feature identifier**](#gt_e3068914-3d5e-4525-9419-fbb63e984571) of the feature to be removed.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

It MUST NOT be NULL.

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

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". |

###### ObjectPath Methods

Add

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

Adds the [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) to the collection of activated features and returns the added feature.

**Parameters:**

*featureId:* The [**feature identifier**](#gt_e3068914-3d5e-4525-9419-fbb63e984571) of the feature to be added.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

It MUST NOT be NULL.

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*featdefScope:* The [**feature scope**](#gt_ab05fe8c-4b1e-4b9d-8426-97e3abef6c11) for this feature.

Type: Microsoft.SharePoint.Client.FeatureDefinitionScope

It MUST have the value of FeatureDefinitionScope.Site or FeatureDefinitionScope.Farm[<7>](#Appendix_A_7" \o "Product behavior note 7).

**Exceptions:**

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

GetById

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

Returns the [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) for the given [**feature identifier**](#gt_e3068914-3d5e-4525-9419-fbb63e984571). 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**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### Microsoft.SharePoint.Client.FeatureDefinitionScope

**ShortName:** SP.FeatureDefinitionScope

**Flag:** false

Scope of the SPFeatureDefinition

##### Field Values

###### None

**Value:** 0

Specifies no scope.

###### Farm

**Value:** 1

Specifies farm scope.

###### Site

**Value:** 2

Specifies site collection scope.

###### Web

**Value:** 3

Specifies web scope.

#### Microsoft.SharePoint.Client.Field

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

**ShortName:** SP.Field

Represent a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that is specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.1.2.9.

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) can be deleted.

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the default value for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**reading order**](#gt_defb8e89-c809-4682-81f3-19c547363361) of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc). 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](#Section_01e61fb5afcc42ff976a61518b585b7b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) 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 [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the field (2) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

FieldTypeKind

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

**Accessibility:** Read/Write

Specifies the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) can be filtered by the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value.

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**field group**](#gt_83b9b757-a9f1-4c59-9039-20bf4dd63885).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is [**hidden**](#gt_6928fba3-3deb-453c-82ed-ecac33026ffd) in [**list views**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) and [**list forms**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**field identifier**](#gt_92319aca-26a8-4586-8765-5eff8bb45f28).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42).

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

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is read-only.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) that defines the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type as defined in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) or the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to.

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether properties on the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) cannot be changed and whether the field (2) cannot be deleted.

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) can be sorted by the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value.

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a customizable identifier of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc). If the value is NULL or empty, the protocol server MUST use the value of *InternalName*.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) for the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the description for the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**data validation criteria**](#gt_1463a508-32be-4539-a092-5ea51b03028f) for the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the error message returned when [**data validation**](#gt_1db94de4-1b5d-40aa-a7d9-617078ebb237) fails for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any client rendering logic for [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of this type.

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets a Boolean value that specifies whether the field is auto-indexed.

True to specify that the field is auto-indexed; otherwise, false.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<8>](#Appendix_A_8" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldCalculated

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

**ShortName:** SP.FieldCalculated

Specifies a [**calculated field**](#gt_a2d18bf9-ff52-47d9-8374-f28f442218c1) in a list. To set properties, call the **Update** method (section [3.2.5.38.2.1.5](#Section_230cb7c31f424990b303eb8c5feba9fb)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DateFormat

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

**Accessibility:** Read/Write

Specifies the date and time format that is used in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value is being set, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

Formula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the formula for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

It MUST NOT be empty.

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

OutputType

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

**Accessibility:** Read/Write

Specifies the output format for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

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

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type as defined in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<9>](#Appendix_A_9" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldCalculatedErrorValue

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

**ShortName:** SP.FieldCalculatedErrorValue

The value of a calculated field when the field value is actually a calculation error, such as division by zero, or overflow.

##### Properties

###### Scalar Properties

ErrorMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Error message.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FieldChoice

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

**ShortName:** SP.FieldChoice

Represents a choice [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc). To set properties on this class, call the **Update** method (section [3.2.5.40.2.1.5](#Section_ebcf5ff6da6d42189450957859856d16)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

Choices

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the collection of choices that are used in this choice [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value is being set, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) and direction is not equal to none. |

EditFormat

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

**Accessibility:** Read/Write

Specifies whether to display the choice [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) as radio buttons or as a drop-down list.

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | If the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) and trying to set to "true". |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) and **FieldTypeKind** is modified. |

FillInChoice

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether users can fill in their own values for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

Mappings

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the canonical values for the specified choices.

It MUST be NULL or an XML fragment that conforms to **MAPPINGDEFINITION**, as specified in [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.13.

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether values in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) can be modified.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Thrown when attempting to change the value of **ReadOnlyField** when this field (2) has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | If this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) and **Required** is set to "true". |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be an [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882) that conforms to the **FieldDefinition type** as defined in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) or a string that is NULL or empty.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) and the set value is not an empty or a null string. |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | If this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) and **StaticName** is changed. |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | If the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) has an external [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

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

SetShowInDisplayForm

**Return Type:** None

Sets the value of **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Updates the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**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. |

UpdateAndPushChanges

**Return Type:** None

Updates the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc), optionally propagating the changes to [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) containing the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**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. |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<10>](#Appendix_A_10" \o "Product behavior note 10)

**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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldCollection

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

**ShortName:** SP.FieldCollection

Represents a read only Collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc)

##### Properties

###### Scalar Properties

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) of the collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

It MUST NOT be NULL. It MUST NOT be empty. It MUST be an [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882) in which each field (2) in **SchemaXml** conforms to the **FieldDefinition** type as defined in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Adds a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) to the field (2) collection. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the SP.Field that was added is returned.

**Parameters:**

*field:* A Microsoft.Sharepoint.Field [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

Type: Microsoft.SharePoint.Client.Field

It MUST NOT be NULL.

AddDependentLookup

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

Adds a secondary [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) to a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) collection. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the SP.Field that was added is returned.

**Parameters:**

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

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*primaryLookupField:* Main lookup field to associate the dependent lookup field with. A dependent lookup field will include data from the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to include data from.

Type: CSOM String

AddFieldAsXml

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

Creates a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the field (2) collection. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the SP.Field that was added is returned.

**Parameters:**

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

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

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

The **FieldDefinition** type is specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

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

*addToDefaultView:* Specifies to add the field (2) to the default [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*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 [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) has insufficient permissions. |

GetById

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

Returns the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) specified by the identifier as represented by the parameter.

**Parameters:**

*id:* The field (2) identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetByInternalNameOrTitle

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

Returns the first [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

GetByTitle

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

Returns the first [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) in the collection based on the title of the specified field (2).

**Parameters:**

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

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

AddDependentLookupField

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

Adds a secondary [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) to a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) collection.[<11>](#Appendix_A_11" \o "Product behavior note 11) A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the SP.Field that was added is returned.

**Parameters:**

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

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*primaryLookupFieldId:* Main lookup field to associate the dependent lookup field with. A dependent lookup field will include data from the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) referred to from the instance of the main lookup field.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

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

Type: CSOM String

AddField

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

Adds a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) to the field (2) collection.[<12>](#Appendix_A_12" \o "Product behavior note 12) A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the **SP.Field** (section [3.2.5.37](#Section_61a446ef3a4941b0a729656d860aaaa1)) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), a user tried to add a new field (2) using a duplicate identifier, a user tried to add a relationship behavior to a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) column, a user tried to update a [**configuration database**](#gt_fe7977bd-64e5-4abd-83ca-c5541125b5fe) while object 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 [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to "true" for a field (2) that cannot be set to "false". |
| -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). |

CreateFieldAsXml

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

Creates a field based on the values defined in the *parameters* input parameter.[<13>](#Appendix_A_13" \o "Product behavior note 13)

**Parameters:**

*parameters:* Defines the information needed to create a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) using an [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067).

Type: Microsoft.SharePoint.Client.XmlSchemaFieldCreationInformation

It MUST NOT be NULL.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2146232832 | 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 **AddFieldOptions.AddFieldCheckDisplayName** input parameter is specified, or a user tried to add a relationship behavior to a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) column, or a user tried to update a [**configuration database**](#gt_fe7977bd-64e5-4abd-83ca-c5541125b5fe) 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 [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to "true" for a field (2) that cannot be set to "false". |
| -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 | The 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). |

#### Microsoft.SharePoint.Client.FieldComputed

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

**ShortName:** SP.FieldComputed

Specifies a [**computed field**](#gt_3ea6763d-18b3-4a74-82ec-2661367530a5). To set the properties of this class, call the **Update** method (section [3.2.5.42.2.1.5](#Section_b9ba3d27df1d48f184d2ce7d5af72774)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnableLookup

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) can reference the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

**See Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type as defined in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**See Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

**See Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<14>](#Appendix_A_14" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldCurrency

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

**ShortName:** SP.FieldCurrency

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains currency values. To set properties, call the Update method (section [3.2.5.43.2.1.5](#Section_5ad6718de83f4beda31f9ce276163d94)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

CurrencyLocaleId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) used to format the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

It MUST be a valid language code identifier (LCID) as specified in [[MS-LCID]](%5bMS-LCID%5d.pdf#Section_70feba9f294e491eb6eb56532684c37f) section [2](http://msdn.microsoft.com/en-us/library/eaa7f7b8-7aa6-460e-9e53-b03d0d6f3e7a/).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

MaximumValue

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldNumber.MaximumValue**, as specified in section [3.2.5.53.1.1.13](#Section_0c885d4bad454db5b007ce4f87b40c99).

MinimumValue

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldNumber.MinimumValue**, as specified in section [3.2.5.53.1.1.14](#Section_8859ec0849984912b4442efe181c004f).

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<15>](#Appendix_A_15" \o "Product behavior note 15)

**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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldDateTime

**TypeId:** {4F9DC9B4-D900-40EB-94B9-008ABBFB22E1}

**ShortName:** SP.FieldDateTime

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains date and time values. To set properties, call the **Update** method (section [3.2.5.44.2.1.5](#Section_bf266d3a12844b90b35a59df29d7e7d9)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DateTimeCalendarType

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

**Accessibility:** Read/Write

Specifies the [**calendar type**](#gt_8f309bd3-c8d6-4f4f-b1ed-e8cef4fb4f97) of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

It MUST be None if the field (2) is in an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

DisplayFormat

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

**Accessibility:** Read/Write

Specifies the type of date and time format that is used in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type as defined in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f)

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the display name of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) type.

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46)

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

FriendlyDisplayFormat

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

**Accessibility:** Read/Write

Gets or sets the type of friendly display format that is used in the [**field**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).[<16>](#Appendix_A_16" \o "Product behavior note 16)

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<17>](#Appendix_A_17" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldGuid

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

**ShortName:** SP.FieldGuid

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains global unique identifier (GUID) values.

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be an XML document that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3, 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the display name for **FieldTypeKind** of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

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

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**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. |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**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. |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<18>](#Appendix_A_18" \o "Product behavior note 18)

**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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldLink

**TypeId:** {E2D99203-868F-4211-AC76-F6BCA0FF94EE}

**ShortName:** SP.FieldLink

Specifies a [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) or [**field definition**](#gt_b9ccb552-70a9-4d7b-bbc5-e10aa6ad991c) for a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

##### Properties

###### Scalar Properties

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) corresponding to this [**field link**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd) is available in New/Edit [**list forms**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) identifier of the [**field link**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd). The value of this property is identical to the value of the **Id** property of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) or [**field definition**](#gt_b9ccb552-70a9-4d7b-bbc5-e10aa6ad991c) that is being referenced.

It MUST NOT be an empty GUID.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**field link**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd).

It MUST be less than or equal to 256 characters.

It MUST NOT be NULL.

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) requires a value. If the field (2) requires a value, this value MUST be set to "true". Otherwise, it MUST be set to "false".

FieldInternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the internal name of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).[<19>](#Appendix_A_19" \o "Product behavior note 19)

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes this [**field link**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd) from the collection of the parent [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldLinkCollection

**TypeId:** {6D87E76A-B8A8-4634-8170-082B1D454BFD}

**ShortName:** SP.FieldLinkCollection

Specifies a Collection for [**field links**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Reorder

**Return Type:** None

Rearranges the collection of [**field links**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd) in the order in which [**field internal names**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) are specified.

**Parameters:**

*internalNames:* Specifies field internal names that are arranged in the order in which the collection of field links is reordered.

Type: [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

Add

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

Add a [**field link**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd) with the specified link information to the collection. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) 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.

GetById

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

Gets the [**field link**](#gt_d9405b15-051a-4b86-9866-4918cceff6cd) with the given *id* from this collection.[<20>](#Appendix_A_20" \o "Product behavior note 20) 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](#Section_d3326d2c50784cd69c18985c56dd2585)) that is returned.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### Microsoft.SharePoint.Client.FieldLinkCreationInformation

**TypeId:** {63FB2C92-8F65-4BBB-A658-B6CD294403F4}

**ShortName:** SP.FieldLinkCreationInformation

Contains properties that are used as parameters to initialize a **SP.FieldLink** object (section [3.2.5.46](#Section_d3326d2c50784cd69c18985c56dd2585)).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

Field

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

**Accessibility:** Read/Write

The Field information of the FieldLink to be created.

It MUST NOT be NULL.

#### Microsoft.SharePoint.Client.FieldLookup

**TypeId:** {EE47FF61-3260-43A9-BE22-829A1FA85B44}

**ShortName:** SP.FieldLookup

Represents a [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7). The field value for this class is contained in **FieldLookupValue** (section [3.2.5.50](#Section_ce4a32b5dfa24bc99aba8a37ff86fddf)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

AllowMultipleValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) allows multiple values.

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

IsRelationship

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) is a [**relationship lookup field**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24). 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

LookupField

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the internal name of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the target [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), used to display lookup values.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The list that this field (2) belongs to is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

LookupList

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) of the target [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that contains the [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The list that this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

LookupWebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

Specifies the GUID that identifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) containing the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that contains the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) used as the lookup values.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The list that this field (2) belongs to is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

PrimaryFieldId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**primary lookup field**](#gt_93803490-1af4-43a7-b2fc-57fc2532ec26) identifier if this is a [**dependent lookup field**](#gt_38691822-fbf7-48d3-bc51-cabb4bf8b79a). Otherwise, it is an empty string.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | When the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

RelationshipDeleteBehavior

**Type:** Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**Accessibility:** Read/Write

Gets or sets a value that specifies the [**relationship delete behavior**](#gt_dc7b767e-b52e-4591-8149-892b4fb24918) of the [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

A bit that specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d).[<21>](#Appendix_A_21" \o "Product behavior note 21)

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<22>](#Appendix_A_22" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldLookupValue

**TypeId:** {F1D34CC0-9B50-4A78-BE78-D5FACFCCCFB7}

**ShortName:** SP.FieldLookupValue

SPFieldLookupValue: Field value class for SPFieldLookup (Lookup field).

##### Properties

###### Scalar Properties

LookupId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Gets or sets the identifier (ID) of the lookup field.

LookupValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the value of the lookup field as a string.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FieldMultiChoice

**TypeId:** {284C160F-3783-4344-A471-80E032719F26}

**ShortName:** SP.FieldMultiChoice

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains one or more values from a set of specified values.

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

Choices

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies values that are available for selection in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

FillInChoice

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) can accept values other than those specified in **Microsoft.Sharepoint.Client.FieldMultiChoice.Choices**, as specified in section [3.2.5.51.1.1.2](#Section_ef4a53ef3386414eb63e20335e0df38b).

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

Mappings

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the internal values corresponding to **Choices**.

It MUST be NULL or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to **MAPPINGDEFINITION**, as specified in [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.13.

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<23>](#Appendix_A_23" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldMultiLineText

**TypeId:** {9AE17ECC-11A6-4433-8B51-7ECB865FFE05}

**ShortName:** SP.FieldMultiLineText

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that can contain multiple lines of text. To set properties, call the **Update** method (section [3.2.5.52.2.1.5](#Section_3cf0d0fe764947a38c171be5153135a1)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

AllowHyperlink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**hyperlink**](#gt_dbe6a2d4-1841-4b4a-a9f6-562c6df7897e) is allowed as a value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AppendOnly

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether all changes to the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) are displayed in [**list forms**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

NumberOfLines

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the number of lines of text to display for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

Its value MUST be equal to or greater than 1. Its value MUST be equal to or less than 1000.

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

RestrictedMode

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) supports a subset of [**rich text**](#gt_b07b9fa4-0a06-4db3-85ca-3157048ef9da) formatting.

RichText

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) supports [**rich text**](#gt_b07b9fa4-0a06-4db3-85ca-3157048ef9da) formatting.

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

WikiLinking

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<24>](#Appendix_A_24" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldNumber

**TypeId:** {E32D2A19-D2A8-428C-B056-EA71EDE547CE}

**ShortName:** SP.FieldNumber

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains number values. To set properties, call the **Update** method (section [3.2.5.53.2.1.5](#Section_53a41fe0d549482abf90bcf995a70453)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

MaximumValue

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

Specifies the maximum allowed value for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

MinimumValue

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

Specifies the minimum allowed value for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<25>](#Appendix_A_25" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldRatingScale

**TypeId:** {66D84FDD-BDB2-4E21-BED0-67F3EAB33DE4}

**ShortName:** SP.FieldRatingScale

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains rating scale values for a [**survey list**](#gt_345344c1-0436-424c-b48d-01b33bdbfc23). To set properties, call the **Update** method (section [3.2.5.54.2.1.5](#Section_ebda594ceb6c4f35819ed601cd68baa1)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

Choices

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldMultiChoice.Choices**, as specified in section [3.2.5.51.1.1.2](#Section_ef4a53ef3386414eb63e20335e0df38b).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

FillInChoice

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldMultiChoice.FillInChoice**, as specified in section [3.2.5.51.1.1.8](#Section_a1690dc724a34ecbad6454b488e757da).

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

GridEndNumber

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the end number for the rating scale.

GridNAOptionText

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the display text corresponding to the choice in the rating scale that indicates the non-applicable option.

GridStartNumber

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the start number for the rating scale.

GridTextRangeAverage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the display text corresponding to the average of the rating scale.

GridTextRangeHigh

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the display text corresponding to the maximum of the rating scale.

GridTextRangeLow

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the display text corresponding to the minimum of the rating scale.

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

Mappings

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.FieldMultiChoice.Mappings**, as specified in section [3.2.5.51.1.1.15](#Section_fa11738244284df1ad064bcd0e1d7e4e).

MUST be NULL or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to **MAPPINGDEFINITION**, as specified in [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.13.

RangeCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of options in the rating scale.

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.Field.TypeDisplayName, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<26>](#Appendix_A_26" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### 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)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

##### Properties

###### Scalar Properties

Answer

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**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)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) this value is associated with.

Question

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a sub-question within a rating scale.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FieldStringValues

**TypeId:** {542FA9DF-AC22-4FDB-8BA3-DAB6060C2DE4}

**ShortName:** SP.FieldStringValues

Specifies a collection that contains key value pairs. The **FieldStringValues** type contains [**CSOM expando fields**](#gt_d5c5ed4a-b218-4497-be68-b36fe5eeac6b). The value type for the CSOM expando fields MUST be [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldText

**TypeId:** {47CBA3A7-3327-4FA1-AC10-73A7A182FE05}

**ShortName:** SP.FieldText

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains a single line of text. To set properties, call the **Update** method (section [3.2.5.57.2.1.5](#Section_17dd9d30fa964ca2a6efa4c02be60acb)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

MaxLength

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the maximum number of characters allowed in the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

Its value MUST be equal to or greater than 1. Its value MUST be equal to or less than 255.

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether or not the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) requires values.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.Field.TypeDisplayName, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<27>](#Appendix_A_27" \o "Product behavior note 27)

**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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldType

**ShortName:** SP.FieldType

**Flag:** false

Specifies the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc), as specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.3.1.

##### Field Values

###### Invalid

**Value:** 0

It MUST NOT be used.

###### Integer

**Value:** 1

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains an **integer** value.

###### Text

**Value:** 2

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a single line of text.

###### Note

**Value:** 3

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains multiple lines of text.

###### DateTime

**Value:** 4

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a date and time value or a date-only value.

###### Counter

**Value:** 5

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a monotonically increasing integer.

###### Choice

**Value:** 6

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a single value from a set of specified values.

###### Lookup

**Value:** 7

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is a [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7).

###### Boolean

**Value:** 8

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a **Boolean** value.

###### Number

**Value:** 9

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a [**floating-point number**](#gt_237156df-b9cf-4b8a-9753-98001801a90d) value.

###### Currency

**Value:** 10

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a currency value.

###### URL

**Value:** 11

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) and an optional description of the URI.

###### Computed

**Value:** 12

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is a [**computed field**](#gt_3ea6763d-18b3-4a74-82ec-2661367530a5).

###### Threading

**Value:** 13

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) indicates the thread for a [**discussion item**](#gt_19bfd7b3-2bdd-49d8-bfe6-b428cd581f10) in a threaded view of a [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67).

###### Guid

**Value:** 14

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) value.

###### MultiChoice

**Value:** 15

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains one or more values from a set of specified values.

###### GridChoice

**Value:** 16

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains rating scale values for a [**survey list**](#gt_345344c1-0436-424c-b48d-01b33bdbfc23).

###### Calculated

**Value:** 17

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is a [**calculated field**](#gt_a2d18bf9-ff52-47d9-8374-f28f442218c1).

###### File

**Value:** 18

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains the [**leaf name**](#gt_c3c1a51b-f3e1-40b2-8e48-ae956e1975f5) of a [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) as a value.

###### Attachments

**Value:** 19

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) indicates whether the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) has [**attachments**](#gt_5d07b95e-85c9-42c0-9139-ff06b787b459).

###### User

**Value:** 20

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains one or more users and [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) as values.

###### Recurrence

**Value:** 21

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) indicates whether a meeting in a calendar [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) recurs.

###### CrossProjectLink

**Value:** 22

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a link between projects in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### ModStat

**Value:** 23

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) indicates [**moderation status**](#gt_fcf9d6e5-9e10-43a5-8464-93be1f24099a).

###### Error

**Value:** 24

Specifies that the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) was set to an invalid value.

###### ContentTypeId

**Value:** 25

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a [**content type identifier**](#gt_b9e86552-0bd2-49f2-acea-a94af2842587) as a value.

###### PageSeparator

**Value:** 26

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) separates questions in a [**survey list**](#gt_345344c1-0436-424c-b48d-01b33bdbfc23) onto multiple pages.

###### ThreadIndex

**Value:** 27

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) indicates the position of a [**discussion item**](#gt_19bfd7b3-2bdd-49d8-bfe6-b428cd581f10) in a threaded view of a [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67).

###### WorkflowStatus

**Value:** 28

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) indicates the status of a [**workflow instance**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) on a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

###### AllDayEvent

**Value:** 29

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) indicates whether a meeting in a calendar [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an all-day event.

###### WorkflowEventType

**Value:** 30

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains the most recent [**event (2)**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) in a [**workflow instance**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7).

###### MaxItems

**Value:** 33

It MUST NOT be used.

###### Geolocation

**Value:** 31

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains geographical location values.[<28>](#Appendix_A_28" \o "Product behavior note 28)

###### OutcomeChoice

**Value:** 32

Specifies that the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) contains a single value from a set of user-specified values used to determine the outcome of a [**task**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f) [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).[<29>](#Appendix_A_29" \o "Product behavior note 29)

#### Microsoft.SharePoint.Client.FieldUrl

**TypeId:** {B1AE9217-E0B0-4E34-9604-BD2462647EE9}

**ShortName:** SP.FieldUrl

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains a [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95). To set properties, call the **Update** method (section [3.2.5.59.2.1.5](#Section_19011fdb8a904f909bdd11a2f9b5bab7)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

DisplayFormat

**Type:** Microsoft.SharePoint.Client.UrlFieldFormatType

**Accessibility:** Read/Write

Specifies the display format for the value in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<30>](#Appendix_A_30" \o "Product behavior note 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldUrlValue

**TypeId:** {FA8B44AF-7B43-43F2-904A-BD319497011E}

**ShortName:** SP.FieldUrlValue

Specifies the hyperlink and the description values for **FieldURL**.

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description for the [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95).

Its length MUST be equal to or less than 255.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95).

Its length MUST be equal to or less than 255. It MUST be one of the following: NULL, empty, an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85), or a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FieldUser

**TypeId:** {EBD2FB89-E8A2-46C4-B317-9B2347121765}

**ShortName:** SP.FieldUser

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains a user. To set properties, call the **Update** method (section [3.2.5.61.2.1.5](#Section_f4e4c0b951d54dd0a83a0c730ef9bc5e)).

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

AllowDisplay

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether to display the name of the user in a [**survey list**](#gt_345344c1-0436-424c-b48d-01b33bdbfc23).

AllowMultipleValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.AllowMultipleValues**, as specified in section [3.2.5.49.1.1.1](#Section_7b2d80873d5a40e9bc7c9bff340c38e1).

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

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](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a **Boolean** value that indicates whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a [**base field type**](#gt_d9072115-4a93-4e98-be06-7d2aa0ef9681).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

IsRelationship

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.IsRelationship**, as specified in section [3.2.5.49.1.1.14](#Section_e2ba1ada389048819fd4bd185dc20340).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is read, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

LookupField

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.LookupField**, as specified in section [3.2.5.49.1.1.15](#Section_7abd89bdc3e54aeb9d99239d0ef5576d).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is read, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

LookupList

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.LookupList**, as specified in section [3.2.5.49.1.1.16](#Section_4d3e0d341bb3489b9d99bf5b6f21fd3e).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is read, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

LookupWebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.LookupWebId**, as specified in section [3.2.5.49.1.1.17](#Section_5b5c1288f863464ba195d209e1b5e632).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is read, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Presence

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**presence**](#gt_38d6262a-b927-4415-8e02-ef1012656edb) is enabled on the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

PrimaryFieldId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.FieldLookup.PrimaryFieldId**, as specified in section [3.2.5.49.1.1.18](#Section_c89086965ddc46f7993b8a876d64327e).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | When the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

RelationshipDeleteBehavior

**Type:** Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**Accessibility:** Read/Write

Returns a **Microsoft.SharePoint.Client.FieldLookup.RelationshipDeleteBehavior** (section [3.2.5.49.1.1.20](#Section_14afd94ff78b4a988c45fd55aa55f5ef)) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true", and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type, as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

**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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

SelectionGroup

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the identifier of the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) whose [**members**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) can be selected as values of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

SelectionMode

**Type:** Microsoft.SharePoint.Client.FieldUserSelectionMode

**Accessibility:** Read/Write

Specifies whether users and [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) or only users can be selected.

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

A bit that specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d).

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets the Boolean value that specifies whether or not the field is auto-indexed. Specify a value of true if the field is auto-indexed; false if otherwise.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Description** property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the **Title** property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.[<31>](#Appendix_A_31" \o "Product behavior note 31)

**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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldUserSelectionMode

**ShortName:** SP.FieldUserSelectionMode

**Flag:** false

Specifies the selection mode for field values from the column of user type.

##### Field Values

###### PeopleOnly

**Value:** 0

Specifies that only individual users can be selected.

###### PeopleAndGroups

**Value:** 1

Specifies that both individuals and groups can be selected.

#### Microsoft.SharePoint.Client.FieldUserValue

**TypeId:** {C956AB54-16BD-4C18-89D2-996F57282A6F}

**ShortName:** SP.FieldUserValue

SPFieldUserValue: field value class for SPFieldUser (User field)

##### Properties

###### Scalar Properties

Email

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the Email of the user from the lookup string or SPUser object.

LookupId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Gets or sets the identifier (ID) of the lookup field.

LookupValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the value of the user field as a string.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.File

**TypeId:** {DF28BE1E-74B5-4B21-B73A-2BBAC0A23D8A}

**ShortName:** SP.File

Represents a file in a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that can be a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682), an item in a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35), or a file in a folder.

##### Properties

###### Scalar Properties

CheckInComment

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the comment used when a document is checked into a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

Its length MUST be equal to or less than 1023.

CheckOutType

**Type:** Microsoft.SharePoint.Client.CheckOutType

**Accessibility:** Read Only

Specifies the type of [**check out**](#gt_a6394b83-9bd2-4a2e-b9a8-428608883bdc) on the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

CustomizedPageStatus

**Type:** Microsoft.SharePoint.Client.CustomizedPageStatus

**Accessibility:** Read Only

Specifies the customization status of the file.

ETag

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the **ETag** (see [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372)) value.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

Exists

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the file exists.

Level

**Type:** Microsoft.SharePoint.Client.FileLevel

**Accessibility:** Read Only

Specifies the [**publishing level**](#gt_c703b8dc-3960-471c-86ba-c686f77f16dd) of the file.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

MajorVersion

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**major version**](#gt_66583c77-eb07-43c4-8f1b-dd157580db46) of the file.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

MinorVersion

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**minor version**](#gt_e0d99b53-9426-4a45-8429-b012184a4045) of the file.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the file name including the extension.

It MUST NOT be NULL. Its length MUST be equal to or less than 260.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the file.

It MUST NOT be NULL. It MUST be a URL of server-relative form.

TimeCreated

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies when the file was created.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

TimeLastModified

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**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. |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the file.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

UIVersion

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**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. |

UIVersionLabel

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**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. |

Length

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the size of the file in bytes, excluding the size of any [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) that are used in the file.[<32>](#Appendix_A_32" \o "Product behavior note 32)

**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. |

ContentTag

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Returns internal version of content, used to validate document equality for read purposes.

IrmEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether or not Information Rights Management (IRM) is enabled at the file level. A value of true indicates IRM is enabled; a value of false indicates IRM is disabled.

LinkingUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the URL that is suitable for durable linking to the file.

For file types that do not support durable linking, an empty string is returned.

It MUST NOT be NULL.

UniqueId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Gets the GUID that uniquely identifies the file in the content database.

###### ObjectPath Properties

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. |

CheckedOutByUser

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who has checked out the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

EffectiveInformationRightsManagementSettings

**Type:** Microsoft.SharePoint.Client.EffectiveInformationRightsManagementSettings

**Accessibility:** Read Only

Returns the effective Information Rights Management (IRM) settings for the file.

A file can be IRM-protected based on the IRM settings for the file itself, based on the IRM settings for the list which contains the file, or based on a rule. From greatest to least, IRM settings take precedence in the following order: rule, list, then file.

InformationRightsManagementSettings

**Type:** Microsoft.SharePoint.Client.InformationRightsManagementFileSettings

**Accessibility:** Read Only

Returns the Information Rights Management (IRM) settings for the file.

ListItemAllFields

**Type:** Microsoft.SharePoint.Client.ListItem

**Accessibility:** Read Only

Specifies the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) values for the list item corresponding to the file.

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. |

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. |

Properties

**Type:** Microsoft.SharePoint.Client.PropertyValues

**Accessibility:** Read Only

Gets a collection of all the properties for the file.

It MUST NOT be NULL.

Versions

**Type:** Microsoft.SharePoint.Client.FileVersionCollection

**Accessibility:** Read Only

Specifies a collection of file version [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) that represent the versions of the file.

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

CheckIn

**Return Type:** None

Checks the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) in to a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) based on the check-in type.

**Parameters:**

*comment:* Specifies a comment for the check-in.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Its length MUST be equal to or less than 1023.

*checkInType:* Specifies the type of check-in.

Type: Microsoft.SharePoint.Client.CheckinType

CheckOut

**Return Type:** None

Checks out the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) from a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

**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. |

CopyTo

**Return Type:** None

Copies the file to the destination [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1). The protocol server MUST overwrite an existing [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) of the same name if *bOverWrite* is "true".

**Parameters:**

*strNewUrl:* Specifies the destination URL.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024729 | Microsoft.SharePoint.SPFileLockException | File is not [**locked**](#gt_7795ac77-550e-4531-9ce5-327bbde6fa81) by the current user |
| -2147018894 | Microsoft.SharePoint.SPFileLockException | A user other than the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) has a [**shared lock**](#gt_96c9845f-9bb7-415f-81fe-7aef83a486b2) on the file |
| -2147018887 | Microsoft.SharePoint.SPFileLockException | A user other than the current user has an [**exclusive lock**](#gt_e7450f30-459b-4c1f-b2f0-2b619cbb499d) on the file |

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**](#gt_e7450f30-459b-4c1f-b2f0-2b619cbb499d) on the file. |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

MoveTo

**Return Type:** None

Moves the file to the specified destination URL.

**Parameters:**

*newUrl:* Specifies the destination URL.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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 by the current user. |
| -2147018894 | Microsoft.SharePoint.SPFileLockException | A user other than the current user has a shared lock on the file. |
| -2147018887 | Microsoft.SharePoint.SPFileLockException | A user other than the current user has an exclusive lock on the file. |

Publish

**Return Type:** None

Submits the file for content approval with the specified comment.

**Parameters:**

*comment:* Specifies the comment.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). 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 by the current user. |
| -2147018894 | Microsoft.SharePoint.SPFileLockException | A user other than the current user has a shared lock on the file. |
| -2147018887 | Microsoft.SharePoint.SPFileLockException | A user other than the current user has an exclusive lock on the file. |

Recycle

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Moves the file to the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) and returns the identifier of the new [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147018894 | Microsoft.SharePoint.SPFileLockException | [**Shared lock**](#gt_96c9845f-9bb7-415f-81fe-7aef83a486b2) on the file. |
| -2147018887 | Microsoft.SharePoint.SPFileLockException | [**Exclusive lock**](#gt_e7450f30-459b-4c1f-b2f0-2b619cbb499d) on the file. |
| -2147024894 | System.IO.FileNotFoundException | File cannot be found. |

SaveBinary

**Return Type:** None

Saves the specified [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) into a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

**Parameters:**

*parameters:* An [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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**](#gt_96c9845f-9bb7-415f-81fe-7aef83a486b2) is on the file. |

UndoCheckOut

**Return Type:** None

Reverts an existing checkout for the file.

**Parameters:** None

UnPublish

**Return Type:** None

Removes the file from content approval or unpublishes a [**major version**](#gt_66583c77-eb07-43c4-8f1b-dd157580db46).

**Parameters:**

*comment:* Specifies the comment for **UnPublish**.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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 by the current user. |
| -2147018894 | Microsoft.SharePoint.SPFileLockException | A user other than the current user has a shared lock on the file. |
| -2147018887 | Microsoft.SharePoint.SPFileLockException | A user other than the current user has an exclusive lock on the file. |

OpenBinaryStream

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Opens the file as a [**stream**](#gt_f3529cd8-50da-4f36-aa0b-66af455edbb6).[<33>](#Appendix_A_33" \o "Product behavior note 33)

**Parameters:** None

SaveBinaryStream

**Return Type:** None

Saves the file in binary format.[<34>](#Appendix_A_34" \o "Product behavior note 34)

**Parameters:**

*file:* A stream containing the contents of the specified file.

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Approve

**Return Type:** None

Approves the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) submitted for content approval with the specified comment.

**Parameters:**

*comment:* A string containing the comment.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Deny

**Return Type:** None

Denies the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) submitted for content approval.

**Parameters:**

*comment:* A string containing a comment about the denial.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetContentVerFromTag

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Reserved for internal use only. This method exposes the internal **ContentVersion** value inside of a **ContentTag**.

**Parameters:**

*contentTag:* Specifies the **ContentTag** from which the **ContentVersion** will be obtained.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

CancelUpload

**Return Type:** None

Aborts the chunk upload session without saving the uploaded data. If **StartUpload** (section [3.2.5.64.2.1.22](#Section_8c3fc391e3bf438ca5566bf88c6da08a)) created the file, the file will be deleted.

**Parameters:**

*uploadId:* The upload session ID.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

ContinueUpload

**Return Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

Continues a chunk upload session with another fragment; the current file content is not changed.

**Parameters:**

*uploadId:* The upload session ID.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*fileOffset:* The file offset where the fragment starts.

Type: CSOM Int64

*stream:* The stream containing the fragment.

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

ExecuteCobaltRequest

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Executes a Cobalt request against the file. Input can be serialized as either FssHttp ([[MS-FSSHTTP]](%5bMS-FSSHTTP%5d.pdf#Section_05fa7efd48ed48d58d8577995e17cc81)) or FssHttpB ([[MS-FSSHTTPB]](%5bMS-FSSHTTPB%5d.pdf#Section_f59fc37d22324b14baac25f98e9e7b5a)). The protocol being used is automatically detected.

**Parameters:**

*inputStream:* The input stream containing the FssHttp/FssHttpB Cobalt request.

Type: CSOM Stream

GetImagePreviewUrl

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the URL of the thumbnail with a size closest to the specified size; the actual resolution of the thumbnail might not be the same as the desired value.

**Parameters:**

*width:* The desired width of the resolution.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*height:* The desired height of the resolution.

Type: CSOM Int32

*clientType:* The client type. This is used for logging purposes.

Type: CSOM String

GetPreAuthorizedAccessUrl

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns a link for downloading the file without authentication.

**Parameters:**

*expirationHours:* The number of hours until the link expires.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

If the maximum expiration time defined in the web application is less than the specified expiration time, the maximum expiration time takes precedence.

GetWOPIFrameUrl

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the full URL to the SharePoint frame page that will initiate the specified WOPI frame action with the file's associated WOPI application. If there is no associated WOPI application or associated action, the return value is an empty string.

**Parameters:**

*action:* The full URL to the WOPI frame.

Type: Microsoft.SharePoint.Client.Utilities.SPWOPIFrameAction

StartUpload

**Return Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

Returns the uploaded data's size (in bytes) after an upload chunk session is started and the first fragment is uploaded. The current file content is not changed. This method is idempotent when called with the same parameter values for *uploadId* and *stream*. Use the **ContinueUpload** method (section [3.2.5.64.2.1.17](#Section_d9df195c8ba047108187ec9bc851bd05)) to initiate chunk upload sessions for further fragments.

**Parameters:**

*uploadId:* The upload session ID used for subsequent chunk upload sessions.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*stream:* The stream containing the first fragment

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Update

**Return Type:** None

Updates the database with changes made to the file.

**Parameters:** None

###### ObjectPath Methods

GetLimitedWebPartManager

**Return Type:** Microsoft.SharePoint.Client.WebParts.LimitedWebPartManager

Specifies the controls used to access, modify, or add [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) associated with this [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682) and view. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the requested SP.WebParts.LimitedWebPartManager is returned.

**Parameters:**

*scope:* Specifies the [**personalization scope**](#gt_edc28cba-9cda-4912-b789-a373cf4593db) 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**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) does not have an extension of ".aspx". |
| -2147024894 | System.IO.FileNotFoundException | New initialized instance of Web Part manager does not exist. |

FinishUpload

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

Returns the current file after a chunk upload session uploads the last fragment.

**Parameters:**

*uploadId:* The upload session ID.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*fileOffset:* The file offset where the last fragment starts.

Type: [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

*stream:* The stream containing the fragment.

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

#### Microsoft.SharePoint.Client.FileCollection

**TypeId:** {D367B17C-170B-4691-A1E3-8BCCF7686CE4}

**ShortName:** SP.FileCollection

A collection of file [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Adds a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) to the collection based on provided file creation information. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) 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 by the current user. |
| -2147018894 | Microsoft.SharePoint.SPFileLockException | There is a [**shared lock**](#gt_96c9845f-9bb7-415f-81fe-7aef83a486b2) on the file to be added or overwritten in the collection by the other user. |
| -2147018887 | Microsoft.SharePoint.SPFileLockException | There is an [**exclusive lock**](#gt_e7450f30-459b-4c1f-b2f0-2b619cbb499d) on the file to be added or overwritten in the collection by the current user. |

AddStub

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

Returns the file after adding a new file stub which data will later be uploaded to.

**Parameters:**

*urlOfFile:* The [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) for the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

AddTemplateFile

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

Adds an [**uncustomized**](#gt_b5497320-89cb-4c18-a19f-b89d9a1bbc57) file to an existing [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) or [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35). A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the SP.File that was added is returned.

**Parameters:**

*urlOfFile:* The [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the file.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

*templateFileType:* Specifies the template [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) type used for file creation.

Type: Microsoft.SharePoint.Client.TemplateFileType

The *templateFileType* MUST be of standard or Wiki [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) or [**form**](#gt_c7858bfa-d4d2-48a7-ac9c-d2e90fbe3590) type.

GetByUrl

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

Get the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) at the specified [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1).

**Parameters:**

*url:* The [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) for the file.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetByUrlOrAddStub

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

Returns the file or adds a new file stub which data will later be uploaded to.

**Parameters:**

*urlOfFile:* The [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) for the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.FileCreationInformation

**TypeId:** {F5C8173C-CAE6-4469-A7AF-3879CA3C617C}

**ShortName:** SP.FileCreationInformation

Represents a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) to be added via **FileCollection.Add** as defined in section [3.2.5.65.2.2.1](#Section_e9c6669c8abb4b199447574a335bb9c5).

##### Properties

###### Scalar Properties

Content

**Type:** [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

**Accessibility:** Read/Write

Specifies the binary content of the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) to be added.

Overwrite

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether to overwrite an existing [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) with the same name and in the same location as the one being added.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) 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.

ContentStream

**Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

**Accessibility:** Read/Write

The contents of the file as a [**stream**](#gt_f3529cd8-50da-4f36-aa0b-66af455edbb6).[<35>](#Appendix_A_35" \o "Product behavior note 35)

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FileLevel

**ShortName:** SP.FileLevel

**Flag:** false

Specifies the type of version for a file.

##### Field Values

###### Published

**Value:** 1

The current version of the file is published. Value=1.

###### Draft

**Value:** 2

The current version of the file is a draft. Value=2.

###### Checkout

**Value:** 255

The current version of the file is checked out to the current user. Value=255.

#### Microsoft.SharePoint.Client.FileSaveBinaryInformation

**TypeId:** {C3DE0784-43E6-4F12-BD0C-F0D9A34EBF93}

**ShortName:** SP.FileSaveBinaryInformation

Contains information necessary for saving a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

##### Properties

###### Scalar Properties

CheckRequiredFields

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether required [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) are validated when the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) is saved.

If there are required fields (2) that have no value set, the save operation MUST fail.

Content

**Type:** [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

**Accessibility:** Read/Write

Specifies the content of the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

The length MUST NOT be larger than 1,048,567 times the maximum file size for a [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb).

ETag

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the **ETag** value, as specified in see [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372).

If the **ETag** value is specified as not NULL, and no matching **ETag** can be found on the server the save operation MUST fail.

ContentStream

**Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

**Accessibility:** Read/Write

The contents of the file as a [**stream**](#gt_f3529cd8-50da-4f36-aa0b-66af455edbb6).[<36>](#Appendix_A_36" \o "Product behavior note 36)

FieldValues

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read/Write

Updates the key value pairs representing properties of the file. The keys and values are implementation-specific.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FileSystemObjectType

**ShortName:** SP.FileSystemObjectType

**Flag:** false

Specifies the file system [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) type.

##### Field Values

###### Invalid

**Value:** -1

It MUST NOT be used.

###### File

**Value:** 0

Specifies the [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) is a file.

###### Folder

**Value:** 1

Specifies the [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) is a folder.

###### Web

**Value:** 2

Specifies the [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) is a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

#### Microsoft.SharePoint.Client.FileVersion

**TypeId:** {96E4BC1B-E67F-4967-9327-36B79E20AEBC}

**ShortName:** SP.FileVersion

Represents a version of a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

CheckInComment

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the check-in comment.

It MUST NOT be NULL. Its length MUST be equal to or less than 1023.

Created

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the creation date and time for the file version.

ID

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Gets the internal identifier for the file version.

IsCurrentVersion

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) [**version**](#gt_a00b8f2a-178a-4107-ac92-bdd95492f3e1) is the [**current version**](#gt_18b9c2b7-5417-46b7-9984-1a941fba2881).

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the relative URL of the file version based on the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) or subsite.

It MUST NOT be empty. It MUST be a URL of relative form.

VersionLabel

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the implementation-specific identifier of the file.

It MUST NOT be NULL.

Size

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Gets the size of the file version in bytes.

Obsolete. Use **Length** (section [3.2.5.70.1.1.8](#Section_2c76b88ceef54aa8b569f1e1d2494ca7)) instead.

This will throw an InvalidOperationException for versions larger than 2 gigabytes. Use Length instead.

Length

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Gets the length (in bytes) of the file version.

###### ObjectPath Properties

CreatedBy

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user that represents the person who created the file version.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) version.[<37>](#Appendix_A_37" \o "Product behavior note 37)

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024846 | Microsoft.SharePoint.SPException | [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) is not enabled. |
| -2147024891 | System.UnauthorizedAccessException | The protocol client does not have permissions to update this file version. |

OpenBinaryStream

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Opens the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) as a stream. Returns a System.IO.Stream object that contains the file version.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FileVersionCollection

**TypeId:** {3826E282-67A6-4861-88FB-474E8AAC897B}

**ShortName:** SP.FileVersionCollection

Represents a collection of **FileVersion** [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteAll

**Return Type:** None

Deletes all the file version [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) in the collection.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575312 | Microsoft.SharePoint.SPException | Specified file [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) is invalid. |

DeleteByID

**Return Type:** None

Deletes the specified version of the file.

**Parameters:**

*vid:* Specifies the file version identifier to delete.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

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. |

DeleteByLabel

**Return Type:** None

Deletes the file version [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) with the specified version label.

**Parameters:**

*versionlabel:* Specifies the version label.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST NOT be empty. Version label MUST be the return value from the **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. |

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

###### ObjectPath Methods

GetById

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

Returns the file version [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) with the specified version label.[<38>](#Appendix_A_38" \o "Product behavior note 38)

**Parameters:**

*versionid:* Specifies the version label.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

#### Microsoft.SharePoint.Client.Folder

**TypeId:** {DBE8175A-505D-4EFF-BEC4-6C809709808B}

**ShortName:** SP.Folder

Represents a [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) on a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Various folder properties in the **Web** class (section [3.2.5.143](#Section_850bfecad9414c598a2f728a9d500fcd)) return any from a site or subsite. Use the **FolderCollection** (section [3.2.5.73](#Section_373d076d51804f7e82e6c7fb242b4bdb)) that represents the collection of folders for a site or folder. Use an indexer to return a single folder from the collection.

The ContentTypeOrder and UniqueContentTypeOrder properties are not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

ContentTypeOrder

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.ContentTypeId

**Accessibility:** Read Only

Specifies the [**content type order**](#gt_bdd530c1-09b8-472d-af1d-3a26828e2272) for the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

Exists

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a Boolean value that indicates whether the folder exists.

IsWOPIEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the folder is enabled for WOPI default action.

ItemCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the count of items in the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) name.

It MUST NOT be NULL. Its length MUST be equal to or less than 256.

ProgID

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets a string that identifies the application in which the folder was created.

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

It MUST NOT be NULL. It MUST be a URL of server-relative form.

TimeCreated

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Gets when the folder was created in UTC.

TimeLastModified

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Gets the last time this folder or a direct child was modified in UTC.

UniqueContentTypeOrder

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.ContentTypeId

**Accessibility:** Read/Write

Specifies the [**content type order**](#gt_bdd530c1-09b8-472d-af1d-3a26828e2272) for the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca). |

UniqueId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Gets the unique ID of the folder.

WelcomePage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) for the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) [**Welcome page**](#gt_e4415be3-e26f-4f66-a9fd-e9490b651240).

It MUST NOT be NULL.

###### ObjectPath Properties

Files

**Type:** Microsoft.SharePoint.Client.FileCollection

**Accessibility:** Read Only

Specifies the collection of files contained in the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

It MUST NOT be NULL.

Folders

**Type:** Microsoft.SharePoint.Client.FolderCollection

**Accessibility:** Read Only

Specifies the collection of [**list folders**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) contained within the list folder.

It MUST NOT be NULL.

ParentFolder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Specifies the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

Properties

**Type:** Microsoft.SharePoint.Client.PropertyValues

**Accessibility:** Read Only

Returns the properties for the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).[<39>](#Appendix_A_39" \o "Product behavior note 39)

It MUST NOT be NULL.

ListItemAllFields

**Type:** Microsoft.SharePoint.Client.ListItem

**Accessibility:** Read Only

Gets the **Microsoft.SharePoint.Client.ListItem** (section [3.2.5.87](#Section_4a06e0a3275247b292f6970b437d1e17)) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) corresponding to the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523), if the list folder belongs to a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).[<40>](#Appendix_A_40" \o "Product behavior note 40)

StorageMetrics

**Type:** Microsoft.SharePoint.Client.StorageMetrics

**Accessibility:** Read Only

Specifies the storage-related metrics for [**list folders**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

**Parameters:** None

MoveTo

**Return Type:** None

Moves the folder and its contents to a new folder at the specified URL. This method applies only to the context of a single site.

**Parameters:**

*newUrl:* A string that specifies the URL for the new folder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

An exception is thrown if a folder with the same name as specified in the parameter already exists.

Recycle

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Moves the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) to the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) and returns the identifier of the new [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

**Parameters:** None

Update

**Return Type:** None

Updates the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) with changes that have been made to the list folder properties.

**Parameters:** None

###### ObjectPath Methods

GetListItemChanges

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

Gets the collection of all changes from the change log that have occurred within the scope of the SharePoint folder based on the specified query.

**Parameters:**

*query:* Specifies the scope of the changes to retrieve from the change log.

Type: Microsoft.SharePoint.Client.ChangeQuery

It MUST NOT be NULL.

#### Microsoft.SharePoint.Client.FolderCollection

**TypeId:** {B6B425AA-9E17-4205-A4AA-B82C2C3F884D}

**ShortName:** SP.FolderCollection

Represents a collection of [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Adds the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) to the collection of list folders and returns the added list folder.

**Parameters:**

*url:* Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the list folder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

AddWithOverwrite

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

Adds the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) to the collection of list folders and returns the added list folder. The server MUST overwrite an existing list folder if *overwrite* is "true".

**Parameters:**

*url:* Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the list folder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*overwrite:* Specifies whether a list folder is overwritten.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

GetByUrl

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

Returns the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) with the specified [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1).[<41>](#Appendix_A_41" \o "Product behavior note 41)

**Parameters:**

*url:* Specifies the URL of the list folder. The URL MUST be an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85), a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b), a [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3) relative to the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) containing the collection of list folders, or relative to the list folder that directly contains this collection of list folders.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.Form

**TypeId:** {50AACA3C-FA54-47D2-B946-A2839EE956A9}

**ShortName:** SP.Form

Specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.1.2.15.4.

##### Properties

###### Scalar Properties

FormType

**Type:** Microsoft.SharePoint.Client.PageType

**Accessibility:** Read Only

Specifies the [**page type**](#gt_2167fa16-a31b-41e7-a4bd-7c6fc4ff5873) of the [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

It MUST NOT be an empty GUID.

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

It MUST NOT be empty. It MUST be a URL of server-relative form.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FormCollection

**TypeId:** {078611EA-CE4D-45C0-9B7A-D4B1B46CC327}

**ShortName:** SP.FormCollection

Specifies a collection of [**list forms**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) for a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetByPageType

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

Returns the [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) with the specified [**page type**](#gt_2167fa16-a31b-41e7-a4bd-7c6fc4ff5873). If there is more than one list form with the specified page type, the protocol server MUST return one list form as determined by the protocol server. If there is no list form with the specified page type, the server 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

GetById

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

Returns the [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) with the specified identifier.

**Parameters:**

*id:* Specifies the identifier of the list form.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### 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**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

AllowMembersEditMembership

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) of the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) can add and remove members from the group.

AllowRequestToJoinLeave

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether to allow users to request to join or leave in the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

AutoAcceptRequestToJoinLeave

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether requests to join or leave the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) are automatically accepted.

CanCurrentUserEditMembership

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) can add and remove [**members**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) from the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

CanCurrentUserManageGroup

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) can change settings on the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

CanCurrentUserViewMembership

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) can view the [**membership**](#gt_bed47e7f-2cf3-448c-8718-d9be8f682780) of the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description for the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the identifier for the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

LoginName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac). This is the same value as returned by the **Title** property.

Its length MUST be equal to or less than 251.

OnlyAllowMembersViewMembership

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether viewing the [**membership**](#gt_bed47e7f-2cf3-448c-8718-d9be8f682780) of the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) is restricted to [**members**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) of the group.

OwnerTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**owner**](#gt_fd7218ec-39b0-4372-bf4c-9ddfba81cb9e) of the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) represented by this [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

RequestToJoinLeaveEmailSetting

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) to which requests to join or leave the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) are sent.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

IsHiddenInUI

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Principal.IsHiddenInUI**, as specified in section [3.2.5.100.1.1.5](#Section_c468fb79ada34fafb72c0d963ba94dec).[<42>](#Appendix_A_42" \o "Product behavior note 42)

###### ObjectPath Properties

Owner

**Type:** Microsoft.SharePoint.Client.Principal

**Accessibility:** Read/Write

Specifies the [**owner**](#gt_fd7218ec-39b0-4372-bf4c-9ddfba81cb9e) of the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

Users

**Type:** Microsoft.SharePoint.Client.UserCollection

**Accessibility:** Read Only

Specifies the collection of [**members**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) for this [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPException | Cannot initialize group data. |

##### Methods

###### Scalar Methods

Update

**Return Type:** None

Updates [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) properties after changes have been made.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPDistributionGroupException | Distribution group [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) resynchronization or properties update fails. |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.GroupCollection

**TypeId:** {0B9F0E6C-2C15-425E-B0B2-961F78BF1ECF}

**ShortName:** SP.GroupCollection

Represents a collection of [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Remove

**Return Type:** None

Removes the specified [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) from the collection.

**Parameters:**

*group:* Specifies the group 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**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) permissions |
| -1 | System.Security.SecurityException | Access denied when updating [**farm**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a) administrators group. |

RemoveById

**Return Type:** None

Removes the cross-site group with the specified member identifier from the collection.[<43>](#Appendix_A_43" \o "Product behavior note 43)

**Parameters:**

*id:* Specifies the member identifier.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

RemoveByLoginName

**Return Type:** None

Removes the cross-site group with the specified name from the collection.[<44>](#Appendix_A_44" \o "Product behavior note 44)

**Parameters:**

*loginName:* A string that contains the name of the group.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

Add

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

Adds a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) to the collection. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the SP.Group that was added is returned.

**Parameters:**

*parameters:* Specifies an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) to facilitate creation of a group.

Type: Microsoft.SharePoint.Client.GroupCreationInformation

It MUST NOT be NULL.

GetById

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

Returns a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) from the collection based on the identifier of the group.

**Parameters:**

*id:* Specifies the [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) identifier.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetByName

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

Returns a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) from the collection based on the name of the group.[<45>](#Appendix_A_45" \o "Product behavior note 45)

**Parameters:**

*name:* Specifies the group (2) name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.GroupCreationInformation

**TypeId:** {9FD1540E-59E6-47FA-9A00-5173C9C35785}

**ShortName:** SP.GroupCreationInformation

An object used to facilitate creation of a cross-site group.

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A string that contains the description of the cross-site group to be created.

Its length MUST be equal to or less than 512.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A string that specifies the name of the cross-site group 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]](https://go.microsoft.com/fwlink/?LinkId=123096): Title = 1\*1 (DIGIT/ALPHA/"-"/"\_"/"."/"~"/"&"/"%"/"!"/"("/")"/"{"/"}")\*(DIGIT/ALPHA/SP/"-"/"\_"/"."/"~"/"&"/"%"/"!"/"("/")"/"{"/"}")

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.List

**TypeId:** {D89F0B18-614E-4B4A-BAC0-FD6142B55448}

**ShortName:** SP.List

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) on a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

The BrowserFileHandling, DataSource, DefaultDisplayFormUrl, DefaultEditFormUrl, DefaultNewFormUrl, DefaultViewUrl, EffectiveBasePermissions, EffectiveBasePermissionsForUI, HasUniqueRoleAssignments, IsSiteAssetsLibrary, OnQuickLaunch, SchemaXml, ValidationFormula and ValidationMessage properties are not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

AllowContentTypes

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) supports [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

BaseTemplate

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**list server template**](#gt_9085fc27-2277-4c91-8c23-a27a38918d8e) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

Its value MUST be equal to or greater than 0. Its value MUST be equal to or less than 2147483647.

BaseType

**Type:** Microsoft.SharePoint.Client.BaseType

**Accessibility:** Read Only

Specifies the [**base type**](#gt_4e48c8c7-3d9a-4bdf-b540-202400bfc89b) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST be one of the following values: **GenericList**, **DocumentLibrary**, **DiscussionBoard**, **Survey**, or **Issue**.

BrowserFileHandling

**Type:** Microsoft.SharePoint.Client.BrowserFileHandling

**Accessibility:** Read Only

Specifies the override at the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) level for the **BrowserFileHandling** property of the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb). If the **BrowserHandling** property of the Web application is **BrowserFileHandling.Strict**, then this setting MUST be ignored. If the **BrowserHandling** property of the Web application is **BrowserFileHandling.Permissive**, then this setting MUST be respected.

ContentTypesEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) are enabled for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

Created

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies when the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) was created.

DataSource

**Type:** Microsoft.SharePoint.Client.ListDataSource

**Accessibility:** Read Only

Specifies the [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) of an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). If **HasExternalDataSource** is "false", the server MUST return NULL.

DefaultContentApprovalWorkflowId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

Specifies the default [**workflow identifier**](#gt_3b63cffd-27e9-40e8-93ae-a93ec5c116b5) for content approval on the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). It MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b) if there is no default content approval [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce).

DefaultDisplayFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the location of the default [**display form**](#gt_29d22b2c-1ba3-4b4b-bcfa-3f8a7ed4f278) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. It MUST NOT be empty. The client MUST set a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) and the server MUST return a [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3).

DefaultEditFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the URL of the [**edit form**](#gt_65fa851d-924c-4a8a-ae37-b6a5a8ebd6fe) to use for [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. It MUST NOT be empty. The client MUST set a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) and the server MUST return a [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3).

DefaultNewFormUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the location of the default [**new form**](#gt_17416672-fc37-48a4-aead-9a0c3e538188) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. It MUST NOT be empty. The client MUST set a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) and the server MUST return a [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3).

DefaultViewUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**default view**](#gt_4f78cd26-e715-4c7c-a05b-cec6a5268ef5) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. It MUST NOT be empty. It MUST be a URL of server-relative form.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL.

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**reading order**](#gt_defb8e89-c809-4682-81f3-19c547363361) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.2.9 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.2.9.

It MUST conform to the following ABNF, as defined in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096): Direction = "NONE" / "LTR" / "RTL".

DocumentTemplateUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**document template (1)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). It MUST be NULL if **BaseType** is not **DocumentLibrary**.

It MUST NOT be empty. It MUST be a URL of server-relative form.

DraftVersionVisibility

**Type:** Microsoft.SharePoint.Client.DraftVisibilityType

**Accessibility:** Read/Write

Specifies the minimum [**permission**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) required to view [**minor versions**](#gt_e0d99b53-9426-4a45-8429-b012184a4045) and [**drafts**](#gt_bc18986e-966f-404d-a4b4-ea79bf24336d) within the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

EffectiveBasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the effective [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) on the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that are assigned to the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76).

It MUST NOT be NULL.

EnableAttachments

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**list item attachments**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934) are enabled for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

EnableFolderCreation

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether new [**list folders**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) can be added to the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

EnableMinorVersions

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**minor versions**](#gt_e0d99b53-9426-4a45-8429-b012184a4045) are enabled for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

EnableModeration

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether content approval is enabled for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true" and the list is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnableVersioning

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**historical versions**](#gt_56e98ee1-9aaf-498f-b120-5fc43df95dcb) of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) and [**documents**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) can be created in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true" and the list is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

ForceCheckout

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**check out**](#gt_a6394b83-9bd2-4a2e-b9a8-428608883bdc) is required when adding or editing [**documents**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

HasExternalDataSource

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68).

HasUniqueRoleAssignments

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.SecurableObject.HasUniqueRoleAssignments** (section [3.2.5.118.1.1.1](#Section_0ef39a41b4a0416695024226ea52127f)).

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is a [**hidden**](#gt_6928fba3-3deb-453c-82ed-ecac33026ffd) list. If the value is set to "true", the server MUST set the **OnQuickLaunch** property of the list to "false".

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065).

It MUST NOT be an empty GUID.

ImageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the icon of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. Its length MUST be equal to or less than 255. It MUST be a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) or an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85).

IsApplicationList

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies a flag that a client application can use to determine whether to display the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

IsCatalog

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is a [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7).

IsSiteAssetsLibrary

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is designated as a default asset location for images or other files which the users upload to their wiki pages.

ItemCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST be greater than or equal to zero.

LastItemDeletedDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the last time a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) was deleted from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). It MUST return **Created** if no list item has been deleted from the list yet.

LastItemModifiedDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read/Write

Specifies the last time a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3), [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc), or property of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) was modified. It MUST return **Created** if the list has not been modified.

MultipleDataList

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f) contains data for multiple meeting instances within the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). It MUST be "false" for a list that is not in a Meeting Workspace site.

NoCrawl

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies that the [**crawler**](#gt_64f94536-907d-4691-858e-54f032e1bce8) MUST NOT [**crawl**](#gt_63ac7427-ab5f-4a37-bbc6-fac97b789721) the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is set to "true" and the list is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

OnQuickLaunch

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) appears on the [**Quick Launch**](#gt_a8e96ff8-7028-47b4-afaa-4d06213d3bc8) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). If the value is set to "true", the protocol server MUST set the **Hidden** property of the list to "false".

ParentWebUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST be a URL of server-relative form.

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**list schema**](#gt_c0f3bfd7-46d7-4683-b7a2-297c961ca2e0) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. It MUST NOT be empty. It MUST be an [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882) that conforms to the **ListDefinition** type, as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.6.

ServerTemplateCanCreateFolders

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is based on allows the creation of [**folders**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

TemplateFeatureId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**feature identifier**](#gt_e3068914-3d5e-4525-9419-fbb63e984571) of the [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) that contains the [**list schema**](#gt_c0f3bfd7-46d7-4683-b7a2-297c961ca2e0) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). It MUST be an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b) if the list schema for the list is not contained within a feature.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**data validation criteria**](#gt_1463a508-32be-4539-a092-5ea51b03028f) for a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

It MUST NOT be NULL. Its length MUST be equal to or less than 1023.

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the error message returned when [**data validation**](#gt_1db94de4-1b5d-40aa-a7d9-617078ebb237) fails for a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

It MUST NOT be NULL. Its length MUST be equal to or less than 1024.

EntityTypeName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the type name of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<46>](#Appendix_A_46" \o "Product behavior note 46)

ListItemEntityTypeFullName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the full type name of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).[<47>](#Appendix_A_47" \o "Product behavior note 47)

IrmEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) value that specifies whether [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) is enabled for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<48>](#Appendix_A_48" \o "Product behavior note 48)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | External list does not support setting the **IrmEnabled** property. |

IrmExpire

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) value that specifies whether [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) expiration is enabled for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<49>](#Appendix_A_49" \o "Product behavior note 49)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | External list does not support setting the **IrmExpire** property. |

IrmReject

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) value that specifies whether [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) rejection is enabled for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<50>](#Appendix_A_50" \o "Product behavior note 50)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | External list does not support setting the **IrmReject** property. |

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).[<51>](#Appendix_A_51" \o "Product behavior note 51) 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](#Section_87b92a319ef540109979f8f53095fc83)). 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.

IsPrivate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is a private list with restricted permissions. "True" if the list is a private list, otherwise "false".

CrawlNonDefaultViews

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether or not the crawler indexes the non-default views of the list.

Specify a value of true if the crawler indexes the list's non-default views; specify false if otherwise.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | External list does not support setting the "CrawlNonDefaultViews" property to "true". |

CurrentChangeToken

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

**Accessibility:** Read Only

Gets the current change token that is used in the change log for the list.

FileSavePostProcessingEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether or not the files in the list can be processed in asynchronous manner

Specify a value of true if the list files can be processed asynchronously; specify false if otherwise.

MajorVersionLimit

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Gets or sets the maximum number of major versions allowed for an item in a document library that uses version control with major versions only.

MajorWithMinorVersionsLimit

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Gets or sets the maximum number of major versions that are allowed for an item in a document library that uses version control with both major and minor versions.

ParserDisabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether or not the document parser is enabled on the list.

Specify a value of true if the document parser is enabled on the list; specify false if otherwise.

###### ObjectPath Properties

ContentTypes

**Type:** Microsoft.SharePoint.Client.ContentTypeCollection

**Accessibility:** Read Only

Specifies the collection of [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL.

Fields

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

**Accessibility:** Read Only

Specifies the collection of all [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL.

Forms

**Type:** Microsoft.SharePoint.Client.FormCollection

**Accessibility:** Read Only

Specifies the collection of all [**list forms**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL.

ParentWeb

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read Only

Specifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

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](#Section_62b16663a0a041058a4a9acdf6243ab0).

RootFolder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Specifies the [**root folder**](#gt_7caaf21a-bb6c-4d5b-9768-eccac5a8833f) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL.

UserCustomActions

**Type:** Microsoft.SharePoint.Client.UserCustomActionCollection

**Accessibility:** Read Only

Specifies the collection of all [**user custom actions**](#gt_37e5b923-9192-4feb-86fd-668cd85bfcc9) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL.

Views

**Type:** Microsoft.SharePoint.Client.ViewCollection

**Accessibility:** Read Only

Specifies the collection of all [**public views**](#gt_3f8f116e-7112-4fb2-b8ad-c920aa61205a) on the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) and [**personal views**](#gt_c963456c-6db6-4d30-93e4-3c49db5376e2) of the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) on the list.

It MUST NOT be NULL.

WorkflowAssociations

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

**Accessibility:** Read Only

Specifies the collection of all [**workflow associations**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL.

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](#Section_390e6cac98c64e65bdf22dba3c3a80ac).[<52>](#Appendix_A_52" \o "Product behavior note 52)

Items

**Type:** Microsoft.SharePoint.Client.ListItemEntityCollection

**Accessibility:** Read Only

Specifies the collection of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<53>](#Appendix_A_53" \o "Product behavior note 53)

InformationRightsManagementSettings

**Type:** Microsoft.SharePoint.Client.InformationRightsManagementSettings

**Accessibility:** Read Only

Specifies settings for [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759).[<54>](#Appendix_A_54" \o "Product behavior note 54)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2146232832 | System.NotSupportedException | [**Picture library**](#gt_b59f2382-bf71-4869-b429-2979ecc805a8) does not support IRM settings. |

EventReceivers

**Type:** Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**Accessibility:** Read Only

Gets the collection of [**event receivers**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) that have been registered for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<55>](#Appendix_A_55" \o "Product behavior note 55)

DefaultView

**Type:** Microsoft.SharePoint.Client.View

**Accessibility:** Read Only

Gets the default view for a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

CreatablesInfo

**Type:** Microsoft.SharePoint.Client.CreatablesInfo

**Accessibility:** Read Only

Returns an object that describes what this [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) can create, and a collection of links to visit in order to create those things. If it can't create certain things, it contains an error message describing why.

The consumer MUST append the encoded [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the current page to the links returned here. (This page the link goes to needs it as a query parameter to function correctly.) The consumer SHOULD also consider appending &IsDlg=1 to the link, to remove the UI from the linked page, if desired.

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Represents the description of this list.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Represents the title of this list.

##### Methods

###### Scalar Methods

BreakRoleInheritance

**Return Type:** None

Updates the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to stop inheriting [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the list.

**Parameters:**

*copyRoleAssignments:* Specifies whether to perform a one-time copy of the role assignments from the site that contains the list to the list. If "false" the list MUST be given one role assignment containing the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76).

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*clearSubscopes:* If the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is a site, and the *clearSubscopes* parameter is "true", the role assignments for all child securable objects in the current site and in the sites which inherit role assignments from the current site MUST be cleared and those securable objects will inherit role assignments from the current site after this call. If the securable object is a site, 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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) MUST remain unchanged. If the securable object is not a site, 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, 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

DeleteObject

**Return Type:** None

Deletes the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147016498 | Microsoft.SharePoint.SPException | List cannot be deleted because it is being used as a [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075). |
| -2130575299 | Microsoft.SharePoint.SPException | List cannot be deleted, because there MUST be one instance of this list type in a web. |
| -2130575157 | Microsoft.SharePoint.SPException | List cannot be deleted, because one or more related lists have a [**relationship behavior constraint**](#gt_d40de9ac-5975-4f55-bbc1-d2c626b1b82b) that prevents the operation. |

Recycle

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Moves the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) and returns the identifier of the new [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147016498 | Microsoft.SharePoint.SPException | List cannot be deleted because it is being used as a data source (1). |
| -2130575299 | Microsoft.SharePoint.SPException | List cannot be deleted because there MUST be one instance of this list type in a web. |
| -2130575157 | Microsoft.SharePoint.SPException | List cannot be deleted because one or more related lists have a [**relationship behavior constraint**](#gt_d40de9ac-5975-4f55-bbc1-d2c626b1b82b) that prevents the operation. |

ResetRoleInheritance

**Return Type:** None

Updates the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to inherit [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the list.

**Parameters:** None

Update

**Return Type:** None

Commits changed properties of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575342 | Microsoft.SharePoint.SPException | Another list with the title already exists in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |
| -2130575305 | Microsoft.SharePoint.SPException | List was modified on the server in a way that prevents changes from being committed, as determined by the protocol server. |
| -2130575273 | Microsoft.SharePoint.SPException | The [**data validation criteria**](#gt_1463a508-32be-4539-a092-5ea51b03028f) refers to a column that does not exist. |

RenderListData

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the data for the specified query view.[<56>](#Appendix_A_56" \o "Product behavior note 56) The result is implementation-specific, used for providing data to a user interface.

**Parameters:**

*viewXml:* Specifies the [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2) as [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that conforms to the **ViewDefinition** type as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.17.

Type: CSOM String

It MUST NOT be NULL.

GetListItemChangesSinceToken

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Returns the changes made to the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) since the date and time specified in the change token defined by the *query* input parameter.[<57>](#Appendix_A_57" \o "Product behavior note 57)

**Parameters:**

*query:* Specifies the query values to get the changes made to the list. See section [3.2.5.183](#Section_fc6c9f839421477293e05b881a0be0de).

Type: Microsoft.SharePoint.Client.ChangeLogItemQuery

RenderListFormData

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns a string containing [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) values and field (2) schema attributes for a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).[<58>](#Appendix_A_58" \o "Product behavior note 58) The result is implementation-specific, used for providing data to a user interface.

**Parameters:**

*itemId:* Specifies the [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) for a list item in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

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**](#gt_2167fa16-a31b-41e7-a4bd-7c6fc4ff5873) of the [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

Type: CSOM Int32

It MUST NOT be NULL.

SaveAsNewView

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Overwrites a [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) 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**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) and builds and updates the view's [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85).[<59>](#Appendix_A_59" \o "Product behavior note 59) 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:* Set to "true" to make the view private; otherwise, "false".

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*uri:* URL that contains all the implementation-specific filter and sort information for the view.

Type: CSOM String

GetUserEffectivePermissions

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

Returns the user permissions for this [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Parameters:**

*userName:* Specifies the user login name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

ReserveListItemId

**Return Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Reserves the returned [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) identifier for the idempotent creation of a list item.

**Parameters:** None

RenderListDataAsStream

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Returns the data for the specified query view.

**Parameters:**

*parameters:* The parameters to be used to return data.

Type: Microsoft.SharePoint.Client.RenderListDataParameters

It MUST NOT be NULL.

*overrideParameters:* The parameters that are used to override and extend the *parameters*.

Type: Microsoft.SharePoint.Client.RenderListDataOverrideParameters

CreateDocumentAndGetEditLink

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Creates a document at the path and of the type specified within the current list. Returns an edit link to the file.

**Parameters:**

*fileName:* Specifies the name of the document.

Type: CSOM String

If null or empty, the document will be given an automatically-created name.

*folderPath:* Specifies the path within the current list to create the document in.

Type: CSOM String

*documentTemplateType:* A number representing the type of document to create.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Valid values are: 1 = Word, 2 = Excel, 3 = PowerPoint.

*templateUrl:* Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**document template (2)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff) to base the new document on.

Type: CSOM String

MUST be a [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3) or [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) or [**full URL**](#gt_79ae8132-47ee-4ed9-92cb-f92d7426da21) that refers to a file stored within the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the current [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

GetSpecialFolderUrl

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the relative URL of the Save to OneDrive folder.

**Parameters:**

*type:* The Save-to-OneDrive type.

Type: Microsoft.SharePoint.Client.SpecialFolderType

*bForceCreate:* Specify true if the folder doesn't exist and SHOULD be created.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*existingFolderGuid:* The GUID of the created folders that exist, if any.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetWebDavUrl

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the trusted URL for opening the folder in Explorer view.

**Parameters:**

*sourceUrl:* The URL of the current folder the user is in.

Type: CSOM String

RenderListContextMenuData

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Returns the data for the specific list context menu item request.

**Parameters:**

*parameters:* The parameters to return the data.

Type: Microsoft.SharePoint.Client.RenderListContextMenuDataParameters

RenderListFilterData

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Returns the data for the specific field filter item request.

**Parameters:**

*parameters:* The parameters to return the data.

Type: Microsoft.SharePoint.Client.RenderListFilterDataParameters

###### ObjectPath Methods

AddItem

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

Creates a new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) and return a [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the added SP.ListItem.

**Parameters:**

*parameters:* Specifies the properties of the new list item.

Type: Microsoft.SharePoint.Client.ListItemCreationInformation

GetChanges

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

Specifies the collection of changes from the [**change log**](#gt_bb8a8b33-35c9-41ec-b7bd-45f5cf124c4c) that have occurred within the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), based on the specified [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2).

**Parameters:**

*query:* Specifies the query.

Type: Microsoft.SharePoint.Client.ChangeQuery

It MUST NOT be NULL.

GetItemById

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

Specifies the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) with the specified [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae).

**Parameters:**

*id:* Specifies the list item identifier.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetItemByStringId

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

Returns the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) with either the specified [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) or the specified identifier for an instance of an [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf).

**Parameters:**

*sId:* Specifies the list item identifier, or if the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68), specifies the identifier for an instance of an external content type as specified in [[MS-ECTPWPS]](%5bMS-ECTPWPS%5d.pdf#Section_7f9a81b552fe4059ae282c8bf90c76fb) section 3.1.4.1.2.1.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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 is an external list. |
| -1 | System.FormatException | **sId** is a list item identifier with invalid format, and the list is not an external list. |

GetItems

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

Returns a collection of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) based on the specified [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2).

**Parameters:**

*query:* Specifies a query.

Type: Microsoft.SharePoint.Client.CamlQuery

It MUST NOT be NULL.

GetRelatedFields

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

Returns a collection of [**lookup fields**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) that use this [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) as a [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) and that have **FieldLookup.IsRelationship** set to "true".

**Parameters:** None

GetView

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

Returns the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) with the specified [**view identifier**](#gt_0f54c5e5-d938-4215-809b-d8bbdc47ce2e). If an [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b) is specified it MUST return the [**default view**](#gt_4f78cd26-e715-4c7c-a05b-cec6a5268ef5) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Parameters:**

*viewGuid:* Specifies the view identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetRelatedFieldsExtendedData

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

Returns a collection of [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) that store properties of [**relationship lookup fields**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24) of this [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<60>](#Appendix_A_60" \o "Product behavior note 60)

**Parameters:** None

CreateDocument

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

Creates a new document in the specified folder and that is based on the provided template type.

**Parameters:**

*fileName:* The name of the document.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If null or empty, a name will be automatically provided.

*targetFolder:* The folder to create the document within.

Type: Microsoft.SharePoint.Client.Folder

*templateType:* The template type the new document is created with.

Type: Microsoft.SharePoint.Client.DocumentTemplateType

CreateDocumentFromTemplate

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

Creates a new document in the specified folder and that is based on the template at the provided URL.

**Parameters:**

*fileName:* The name of the document.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If null or empty, a name will be automatically provided.

*targetFolder:* The folder to create the document within.

Type: Microsoft.SharePoint.Client.Folder

*templateUrl:* The URL of the template to create the document with.

Type: CSOM String

CreateDocumentFromTemplateBytes

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

Creates a new document in the specified folder and that is based on the provided template bytes.

**Parameters:**

*fileName:* The name of the document.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If null or empty, a name will be automatically provided.

*targetFolder:* The folder to create the document within.

Type: Microsoft.SharePoint.Client.Folder

*templateBytes:* The template bytes to create the document from.

Type: [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

The template bytes to create the document from.

*extension:* The extension of the document.

Type: CSOM String

In the case that a filename is not provided, the extension can be used to automatically generate a filename.

CreateDocumentFromTemplateStream

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

Creates a new document in the specified folder and based on the provided template stream.

**Parameters:**

*fileName:* The name of the document.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If null or empty, a name will be automatically provided.

*targetFolder:* The folder to create the document within.

Type: Microsoft.SharePoint.Client.Folder

*extension:* The extension of the document.

Type: CSOM String

In the case that a filename is not provided, the extension can be used to automatically generate a filename.

*templateStream:* The template stream to create the document from.

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

#### Microsoft.SharePoint.Client.ListCollection

**TypeId:** {1E78B736-61F0-441C-A785-10FC25387C8D}

**ShortName:** SP.ListCollection

Specifies a collection of [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Creates a new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) and adds it to the collection.

**Parameters:**

*parameters:* Specifies the properties of the new list.

Type: Microsoft.SharePoint.Client.ListCreationInformation

It MUST NOT be NULL.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException | [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) specified in **ListCreationInformation.DataSourceProperties** or the specified [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) does not exist on the server. |
| -2130575342 | Microsoft.SharePoint.SPException | Another list with the title already exists in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |
| -2130575237 | Microsoft.SharePoint.SPException | [**List server template**](#gt_9085fc27-2277-4c91-8c23-a27a38918d8e) is not valid. |

EnsureSiteAssetsLibrary

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

Returns a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that is designated as a default asset location for images or other files that the users upload to their wiki pages.

**Parameters:** None

EnsureSitePagesLibrary

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

Returns a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that is designated as a default location for wiki pages.

**Parameters:** None

GetById

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

Returns the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) with the specified [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065).

**Parameters:**

*id:* Specifies the list identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetByTitle

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

Returns the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) with the specified [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700).

**Parameters:**

*title:* Specifies the display name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

#### Microsoft.SharePoint.Client.ListCreationInformation

**TypeId:** {E247B7FC-095E-4EA4-A4C9-C5D373723D8C}

**ShortName:** SP.ListCreationInformation

Specifies the properties of the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

##### Properties

###### Scalar Properties

CustomSchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**list schema**](#gt_c0f3bfd7-46d7-4683-b7a2-297c961ca2e0) of the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST be an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to List Schema as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.

DataSourceProperties

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read/Write

Specifies the properties of the [**data source**](#gt_e091613c-6901-4874-b9b2-27273ead1075) of the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). 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.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description of the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

DocumentTemplateType

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the identifier of the [**document template (1)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff) for the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

QuickLaunchOption

**Type:** Microsoft.SharePoint.Client.QuickLaunchOptions

**Accessibility:** Read/Write

Specifies whether the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is displayed on the [**Quick Launch**](#gt_a8e96ff8-7028-47b4-afaa-4d06213d3bc8) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

TemplateFeatureId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

Specifies the [**feature identifier**](#gt_e3068914-3d5e-4525-9419-fbb63e984571) of the [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) that contains the [**list schema**](#gt_c0f3bfd7-46d7-4683-b7a2-297c961ca2e0) for the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). It MUST be [**empty GUID**](#gt_34c1ee1d-00bf-4ccd-91eb-a50ee8cd0c1b) if the list schema for the new list is not contained within a feature.

TemplateType

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the [**list server template**](#gt_9085fc27-2277-4c91-8c23-a27a38918d8e) of the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3) of the location for the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST be a site-relative URL.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListDataSource

**TypeId:** {06BFE4A5-1516-4B55-A6D7-ECBE3FF7A3C8}

**ShortName:** SP.ListDataSource

Stores the parameters required for a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to communicate with its external data source.

##### Properties

###### Scalar Properties

Properties

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read Only

Specifies the properties about the external data source.

It MUST NOT be NULL. It MUST have LobSystemInstance, EntityNamespace, Entity and SpecificFinder properties and their values.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListDataValidationExceptionValue

**TypeId:** {356FE248-721A-4ADF-AF96-20822BC5476E}

**ShortName:** SP.ListDataValidationExceptionValue

Specifies failure information for a failed [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) or [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) [**data validation**](#gt_1db94de4-1b5d-40aa-a7d9-617078ebb237).

##### Properties

###### Scalar Properties

FieldFailures

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.ListDataValidationFailure

**Accessibility:** Read Only

Specifies the collection of all failures that occurred during [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) [**data validation**](#gt_1db94de4-1b5d-40aa-a7d9-617078ebb237).

ItemFailure

**Type:** Microsoft.SharePoint.Client.ListDataValidationFailure

**Accessibility:** Read Only

Specifies a failure that occurred during [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) [**data validation**](#gt_1db94de4-1b5d-40aa-a7d9-617078ebb237).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListDataValidationFailure

**TypeId:** {6E0BC783-53A2-4506-827F-135040524794}

**ShortName:** SP.ListDataValidationFailure

This class describes a specific validation failure during a list item insert or update.

##### Properties

###### Scalar Properties

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

This property contains the list's title when the ValidationType property is SPValidationType.UserFormulaItem; otherwise, it contains the field display name.

Message

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

If the Reason property is SPReason.DataFailure, then this property contains the validation message provided by the formula author when the ValidationType property is SPValidationType.UserFormulaItem or SPValidationType.UserFormulaField. For other SPValidationTypes, a static message is provided. If the Reason property is SPReason.FormulaError, then this property contains a static message indicating that the formula evaluated to an error (such as #REF!, #DIV/0!, #NAME!, etc.).

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

This property contains the list ID when the ValidationType property is SPValidationType.UserFormulaItem; otherwise, it contains the internal field name.

Reason

**Type:** Microsoft.SharePoint.Client.ListDataValidationFailureReason

**Accessibility:** Read Only

This property describes the reason for the failure.

ValidationType

**Type:** Microsoft.SharePoint.Client.ListDataValidationType

**Accessibility:** Read Only

This property describes the type of validation that triggered this failure.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListDataValidationFailureReason

**ShortName:** SP.ListDataValidationFailureReason

**Flag:** false

This enum describes the type of error that triggered the validation failure for a particular validation type. Descriptions Data - The formula evaluated to false (or a value considered equivalent to false such as zero for a numeric result), or non-formula-based validation (such as required field validation) failed. Error - Evaluation of a formula resulted in an error (such as #NAME!). This SHOULD be kept in-sync with the enum ListDataFailureReason in sts\tp\tsapi\listdatavalidation.h.

##### Field Values

###### DataFailure

**Value:** 0

The data validation formula evaluates to false or to a value equivalent to false.

###### FormulaError

**Value:** 1

The data validation formula contains an error.

#### Microsoft.SharePoint.Client.ListDataValidationType

**ShortName:** SP.ListDataValidationType

**Flag:** false

This enum describes the type of validation that triggered the failure. This SHOULD be kept in-sync with the enum ListDataValidationType in sts\tp\tsapi\listdatavalidation.h.

##### Field Values

###### UserFormulaField

**Value:** 0

This is a field validation formula created by a list author.

###### UserFormulaItem

**Value:** 1

This is an item validation formula created by a list author.

###### RequiredField

**Value:** 2

No value was provided for a required field.

###### ChoiceField

**Value:** 3

The value was not one of the available choices for the field.

###### MinMaxField

**Value:** 4

The value violated the field's **MinimumValue** (section [3.2.5.53.1.1.14](#Section_8859ec0849984912b4442efe181c004f)) or **MaximumValue** (section [3.2.5.53.1.1.13](#Section_0c885d4bad454db5b007ce4f87b40c99)) constraints.

###### TextField

**Value:** 5

The value violated the field's **MaxLength** constraint (section [3.2.5.57.1.1.13](#Section_ae28ef6b47fb4ae2bb10c3dfd7f67cb5)).

#### Microsoft.SharePoint.Client.ListItem

**TypeId:** {53CC48C0-1777-47B7-99CA-729390F06602}

**ShortName:** SP.ListItem

Specifies a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

Contains [**CSOM expando fields**](#gt_d5c5ed4a-b218-4497-be68-b36fe5eeac6b), which correspond to the [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) defined in the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27). The CSOM expando field name is the name of the field (2) defined in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) and the CSOM expando field value is the field (2) value in the list item. The following table specifies the mapping between [**field types**](#gt_1be27f15-12a7-416d-9db9-8dc1b8cf78a3) and values.

| Field type | Mapping to a value |
| --- | --- |
| **Integer** | When its value is undefined it MUST be NULL, otherwise it MUST be a [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0). |
| **Text** | When its value is undefined it MUST be NULL, otherwise it MUST be a [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe). |
| **Note** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **DateTime** | When its value is undefined it MUST be NULL, otherwise it MUST be a [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19). |
| **Counter** | It MUST be a **CSOM Int32**. |
| **Choice** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **Lookup** | When its value is undefined it MUST be NULL, otherwise it MUST be a [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e) of type **FieldLookupValue**, as specified in section [3.2.5.50](#Section_ce4a32b5dfa24bc99aba8a37ff86fddf). |
| **Boolean** | When its value is undefined it MUST be NULL, otherwise it MUST be a [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c). |
| **Number** | When its value is undefined it MUST be NULL, otherwise it MUST be a [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044). |
| **Currency** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Double**. |
| **URL** | When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM Object of type **FieldUrlValue**, asspecified in section [3.2.5.60](#Section_7d386e0cc804458989f5243be93f61e5). |
| **Computed** | N/A |
| **Threading** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String.** |
| **Guid** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM GUID**. |
| **MultiChoice** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Array**. |
| **GridChoice** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Array.** |
| **Calculated** | N/A |
| **File** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **Attachments** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Boolean.** |
| **User** | When its value is undefined it MUST be NULL, otherwise it MUST be a CSOM Object of type **FieldUserValue**, asspecified in section [3.2.5.63](#Section_7d72bfa5928f44ffb6889a02aee72dc5). |
| **Recurrence** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Boolean**. |
| **CrossProjectLink** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Boolean**. |
| **ModStat** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Int32**. |
| **Error** | N/A |
| **ContentTypeId** | When its value is undefined it MUST be NULL, otherwise it MUST be CSOM Object of type **ContentTypeId**, as specified in section [3.2.5.30](#Section_43b55c315ff3435cb7f08ef1006d07b1). |
| **PageSeparator** | N/A |
| **ThreadIndex** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **WorkflowStatus** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Int32**. |
| **AllDayEvent** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Boolean**. |
| **WorkflowEventType** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Int32**. |
| **Facilities** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Array**. |
| **FreeBusy** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **Overbook** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **Confidential** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Boolean**. |
| **WhatsNew** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Boolean**. |
| **DueDate** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM DateTime**. |
| **AllowEditing** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Boolean**. |
| **SendTo** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Array**. |
| **Confirmations** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **CallTo** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM Array**. |
| **CallTime** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM DateTime**. |
| **Whereabout** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |
| **From** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM DateTime**. |
| **Until** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM DateTime**. |
| **ContactInfo** | When its value is undefined it MUST be NULL, otherwise it MUST be a **CSOM String**. |

The Client\_Title, DisplayName, EffectiveBasePermissions, EffectiveBasePermissionsForUI and HasUniqueRoleAssignments properties are not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

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

EffectiveBasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) on the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that are assigned to the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76).

It MUST NOT be NULL.

FileSystemObjectType

**Type:** Microsoft.SharePoint.Client.FileSystemObjectType

**Accessibility:** Read Only

Specifies whether the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) is a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) or a [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

It MUST be one of the following values: File or Folder.

HasUniqueRoleAssignments

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) are uniquely defined for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). If the value is "false", role assignments are inherited from the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27).

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae). It MUST be 0 for a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). It MUST be -1 for list items that have not yet been added to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

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).[<61>](#Appendix_A_61" \o "Product behavior note 61) 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](#Section_942e342a4e694a9186e0a53603868277)). 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.

Client\_Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the title of the item.

###### ObjectPath Properties

ContentType

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

**Accessibility:** Read Only

Specifies the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). It MUST be NULL if the list item has no content type.

FieldValuesAsHtml

**Type:** Microsoft.SharePoint.Client.FieldStringValues

**Accessibility:** Read Only

Specifies the values for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) as [**Hypertext Markup Language (HTML)**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf).

It MUST NOT be NULL.

FieldValuesAsText

**Type:** Microsoft.SharePoint.Client.FieldStringValues

**Accessibility:** Read Only

Specifies the values for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) as text.

It MUST NOT be NULL.

FieldValuesForEdit

**Type:** Microsoft.SharePoint.Client.FieldStringValues

**Accessibility:** Read Only

Specifies the formatted values to be displayed in an [**edit form**](#gt_65fa851d-924c-4a8a-ae37-b6a5a8ebd6fe).

It MUST NOT be NULL.

File

**Type:** Microsoft.SharePoint.Client.File

**Accessibility:** Read Only

Specifies the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) associated with the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). It MUST be NULL if the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) is not a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) or **FileSystemObjectType** is **Folder**.

ParentList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read Only

Specifies the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) that contains the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

It MUST NOT be NULL.

RoleAssignments

**Type:** Microsoft.SharePoint.Client.RoleAssignmentCollection

**Accessibility:** Read Only

Specifies the [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

AttachmentFiles

**Type:** Microsoft.SharePoint.Client.AttachmentCollection

**Accessibility:** Read Only

Specifies the collection of attachments that are associated with the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).[<62>](#Appendix_A_62" \o "Product behavior note 62)

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](#Section_390e6cac98c64e65bdf22dba3c3a80ac).[<63>](#Appendix_A_63" \o "Product behavior note 63)

Folder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Gets a **Microsoft.SharePoint.Client.Folder** (section [3.2.5.72](#Section_9ae5f546597f44ffbfe98a7de9b74dd4)) object that is associated with the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).[<64>](#Appendix_A_64" \o "Product behavior note 64)

Returns **null** if the list item is not a [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

GetDlpPolicyTip

**Type:** Microsoft.SharePoint.Client.DlpPolicyTip

**Accessibility:** Read Only

Gets the Data Loss Protection policy tip notification for this item.

##### Methods

###### Scalar Methods

BreakRoleInheritance

**Return Type:** None

Updates the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) to stop inheriting [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) from the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) or the parent [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

**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**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76).

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*clearSubscopes:* Specifies whether the role assignments for all child list items MUST be cleared.

Type: CSOM Boolean

DeleteObject

**Return Type:** None

Deletes the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | [**List**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) does not support this operation or the list item does not exist in the [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

ParseAndSetFieldValue

**Return Type:** None

Sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) based on an implementation-specific transformation of the value.

**Parameters:**

*fieldName:* Specifies the [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*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 **value** 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). |

Recycle

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Moves the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) to the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) and returns the identifier of the new [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

**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**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

ResetRoleInheritance

**Return Type:** None

Updates the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) to inherit [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) from the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) or the parent [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

**Parameters:** None

SetFieldValue

**Return Type:** None

Sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

**Parameters:**

*fieldName:* Specifies the [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

Type: [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575155 | Microsoft.SharePoint.SPFieldValueException | Field (2) is required and **value** 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). |

Update

**Return Type:** None

Commits changed properties of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575305 | Microsoft.SharePoint.SPException | List item was modified on the server in a way that prevents changes from being committed, as determined by the protocol server. |
| -1 | System.InvalidOperationException | [**List**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) does not support this operation. |

GetWOPIFrameUrl

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Validates that the action is available for this [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). If the action is available, sets the string to a [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) for operating on the list item with the provided action. If the action is not available, sets the string to String.Empty.

**Parameters:**

*action:* Indicates which user action is indicated in the returned WOPIFrameUrl.

Type: Microsoft.SharePoint.Client.Utilities.SPWOPIFrameAction

ValidateUpdateListItem

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.ListItemFormUpdateValue

Validates and sets the values of the specified collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) and, if successfully validated, commits all changes. Returns the modified list of values with updated exception information.

**Parameters:**

*formValues:* Specifies a collection of [**field internal names**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) and values for the given field (2).

Type: CSOM array of Microsoft.SharePoint.Client.ListItemFormUpdateValue

If the collection is empty, no update will take place.

It MUST NOT be NULL.

*bNewDocumentUpdate:* Specifies whether the list item is a document being updated after upload.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*checkInComment:* Check-in comment, if any. This parameter is only applicable when the list item is checked out.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.ArgumentException | A field (2) with the specified internal name does not exist. |

GetUserEffectivePermissions

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

Returns the user permissions for this [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3)**.**

**Parameters:**

*userName:* Specifies the user login name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

OverridePolicyTip

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

Overrides the policy tip on this [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

**Parameters:**

*userAction:* The user action to take.

Type: Microsoft.SharePoint.Client.PolicyTipUserAction

*justification:* The reason why the override is being done.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

GetChanges

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

Returns from the change log the collection of all of the changes that have occurred within the scope of the SharePoint list item, based on the specified query.

**Parameters:**

*query:* The query parameters used to get the collection of changes from the change log.

Type: Microsoft.SharePoint.Client.ChangeQuery

It MUST NOT be NULL.

#### Microsoft.SharePoint.Client.ListItemCollection

**TypeId:** {1722DF25-A4D3-44BB-A1C6-04DBB90E9D91}

**ShortName:** SP.ListItemCollection

Specifies a collection of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

##### Properties

###### Scalar Properties

ListItemCollectionPosition

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

**Accessibility:** Read Only

Specifies the information required to get the next page of data for a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetById

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

Returns the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) with the specified [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae).

**Parameters:**

*id:* The list item identifier.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetByStringId

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

Returns the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) with either the specified [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) or the specified identifier for an instance of an [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf).

**Parameters:**

*sId:* Specifies the list item identifier, or if the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68), specifies the identifier for an instance of an external content type as specified in [[MS-ECTPWPS]](%5bMS-ECTPWPS%5d.pdf#Section_7f9a81b552fe4059ae282c8bf90c76fb) section 3.1.4.1.2.1.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575338 | Microsoft.SharePoint.SPException | List item does not exist, and the list is an external list. |
| -1 | System.FormatException | **sId** is a list item identifier with invalid format, and the list 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. |

#### 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**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

##### Properties

###### Scalar Properties

PagingInfo

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies information, as name-value pairs, required to get the next page of data for a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71). If a name appears more than once, one value MUST be used.

It MUST conform to the following ABNF as defined in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096):

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

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListItemCreationInformation

**TypeId:** {54CDBEE5-0897-44AC-829F-411557FA11BE}

**ShortName:** SP.ListItemCreationInformation

Specifies the properties of the new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

##### Properties

###### Scalar Properties

FolderUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) for the new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

It MUST be NULL, empty, a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b), or an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85). If the value is a server-relative URL or an absolute URL, it MUST be under the [**root folder**](#gt_7caaf21a-bb6c-4d5b-9768-eccac5a8833f) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

LeafName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). It MUST be the name of the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) if the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) of the list item is a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

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.

UnderlyingObjectType

**Type:** Microsoft.SharePoint.Client.FileSystemObjectType

**Accessibility:** Read/Write

Specifies whether the new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) is a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) or a [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

It MUST be one of the following values: **File** or **Folder**.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListTemplate

**TypeId:** {D772ECD1-DAA3-4CB1-9EA1-FEEA1E383FB2}

**ShortName:** SP.ListTemplate

Represents a list definition or a list template, which defines the fields and views for a list. List definitions are contained in files within \\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\TEMPLATE\FEATURES, but list templates are created through the user interface or through the object model when a list is saved as a template.

Use the Web.ListTemplates property (section [3.2.5.143.1.2.13](#Section_347c2d51c1f243d38bb575ab3a24737d)) to return a ListTemplateCollection (section [3.2.5.92](#Section_ba2e818a6b374767a24f7c440548d5b3)) for a site collection. Use an indexer to return a single list definition or list template from the collection.

##### Properties

###### Scalar Properties

AllowsFolderCreation

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a Boolean value indicating whether folders can be created within lists created through the list definition or template.

BaseType

**Type:** Microsoft.SharePoint.Client.BaseType

**Accessibility:** Read Only

Gets the base type for the list definition or list template.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the description of the list definition or list template that is displayed in the user interface.

FeatureId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Gets the ID of the Feature containing the list definition.

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a Boolean value that specifies whether the list definition or list template is hidden from Web site users and does not appear as an option on the Create page.

ImageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the relative path, based on the server, for the image used to represent the list definition or 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.

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the internal name used for the list definition or list template.

It MUST NOT be NULL.

IsCustomTemplate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a Boolean value that indicates whether the SPListTemplate object represents a list template, in other words, a template contained within an .stp file (custom template file).

ListTemplateTypeKind

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Gets the type of the list definition or list template.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the display name for the list definition or list template.

It MUST NOT be NULL.

OnQuickLaunch

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a Boolean value that specifies whether any list created with the list definition or list template is displayed on the Quick Launch bar.

Unique

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a Boolean value that indicates whether only one instance of the list type can be created through the template, and that the template cannot be used to create a list through the object model or user interface.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetGlobalSchemaXml

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Retrieves the global schema.xml file.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ListTemplateCollection

**TypeId:** {23748D10-16A1-4946-A38B-98FDEC0E0EC8}

**ShortName:** SP.ListTemplateCollection

Specifies a collection of [**list templates**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) (section [3.2.5.91](#Section_aac0f578224f48a6905b2951805c0ef1)).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetByName

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

Returns the [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) with the specified name.[<65>](#Appendix_A_65" \o "Product behavior note 65)

**Parameters:**

*name:* The specified name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.ListTemplateType

**ShortName:** SP.ListTemplateType

**Flag:** false

Specifies the type of a [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7). A set of predefined values are specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.7.

##### Field Values

###### NoListTemplate

**Value:** 0

Specifies no template applies.

###### GenericList

**Value:** 100

Specifies a basic [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### DocumentLibrary

**Value:** 101

Specifies a [**Document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

###### Survey

**Value:** 102

Specifies a survey [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Links

**Value:** 103

Specifies a [**links**](#gt_6cfb1417-9127-43fa-ad5b-1ddcc3d270a5) [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Announcements

**Value:** 104

Specifies an announcements [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Contacts

**Value:** 105

Specifies a contacts [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Events

**Value:** 106

Specifies a calendar [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Tasks

**Value:** 107

Specifies a [**task**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f) [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### DiscussionBoard

**Value:** 108

Specifies a [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67).

###### PictureLibrary

**Value:** 109

Specifies a [**picture library**](#gt_b59f2382-bf71-4869-b429-2979ecc805a8).

###### DataSources

**Value:** 110

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) of [**data sources**](#gt_e091613c-6901-4874-b9b2-27273ead1075) for a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### WebTemplateCatalog

**Value:** 111

Specifies a [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7).

###### UserInformation

**Value:** 112

Specifies a [**user information list**](#gt_871c55fa-c4b9-4df2-a7a0-0b9082ad61c9).

###### WebPartCatalog

**Value:** 113

Specifies a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7).

###### ListTemplateCatalog

**Value:** 114

Specifies a [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7).

###### XMLForm

**Value:** 115

Specifies an [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) [**form library**](#gt_74c9d77e-7eed-4f86-93b4-a373cfe03486).

###### MasterPageCatalog

**Value:** 116

Specifies a [**master page**](#gt_2bf32c58-c16c-42c6-8243-3cf627bc5637) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7).

###### NoCodeWorkflows

**Value:** 117

Specifies a [**declarative workflow**](#gt_c7aba7d2-b309-40cf-9280-a84b2333347a) library.

###### WorkflowProcess

**Value:** 118

Specifies a [**form**](#gt_c7858bfa-d4d2-48a7-ac9c-d2e90fbe3590) [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) library.

###### WebPageLibrary

**Value:** 119

Specifies a Wiki Page library.

###### CustomGrid

**Value:** 120

Specifies a [**custom list**](#gt_92d2bb3a-2615-4bf8-b87f-887302d4c40c) in [**datasheet**](#gt_044a2880-814e-4b2f-b3eb-e5d78d499896) [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

###### SolutionCatalog

**Value:** 121

Specifies a [**site solution**](#gt_0995c00b-7088-4404-9436-f304ac81889b) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7).

###### NoCodePublic

**Value:** 122

Specifies a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) scoped [**declarative workflow**](#gt_c7aba7d2-b309-40cf-9280-a84b2333347a) library.

###### ThemeCatalog

**Value:** 123

Specifies a [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7).

###### DataConnectionLibrary

**Value:** 130

Specifies a [**data connection library**](#gt_677e4a8c-b88e-406f-b07c-561a24b4fbe0).

###### WorkflowHistory

**Value:** 140

Specifies a [**workflow history list**](#gt_91f9b840-6741-4ca9-958d-50b741322d5d).

###### GanttTasks

**Value:** 150

Specifies a project [**tasks**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f) [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Meetings

**Value:** 200

Specifies a meeting series [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### Agenda

**Value:** 201

Specifies an agenda [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### MeetingUser

**Value:** 202

Specifies an attendees [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### Decision

**Value:** 204

Specifies a decisions [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### MeetingObjective

**Value:** 207

Specifies an objectives [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### TextBox

**Value:** 210

Specifies a text box [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### ThingsToBring

**Value:** 211

Specifies a "things to bring" [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### HomePageLibrary

**Value:** 212

Specifies a pages library in a [**Meeting Workspace site**](#gt_77b86e92-cbfb-4a4b-aad5-0787bd7d4f1f).

###### Posts

**Value:** 301

Specifies a posts [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**blog**](#gt_65be4132-bf56-4f55-89a3-0c3521b20d8c).

###### Comments

**Value:** 302

Specifies a comments [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**blog**](#gt_65be4132-bf56-4f55-89a3-0c3521b20d8c).

###### Categories

**Value:** 303

Specifies a categories [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) in a [**blog**](#gt_65be4132-bf56-4f55-89a3-0c3521b20d8c).

###### Facility

**Value:** 402

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to document shared assets in a group worksite.

###### Whereabouts

**Value:** 403

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to track employee locations in a group worksite.

###### CallTrack

**Value:** 404

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to track incoming phone call information in a group worksite.

###### Circulation

**Value:** 405

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to track the circulation of documents in a group worksite.

###### Timecard

**Value:** 420

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to manage work hours in a group worksite.

###### Holidays

**Value:** 421

Specifies a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that can be used to add holidays to a calendar.

###### IMEDic

**Value:** 499

Specifies an [**IME**](#gt_19d3dd70-8d6a-4847-9827-ebbde6b1a9b7) dictionary list.

###### ExternalList

**Value:** 600

Specifies an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68).

###### IssueTracking

**Value:** 1100

Specifies an issue tracking [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### AdminTasks

**Value:** 1200

Specifies an Administrator [**tasks**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f) [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### HealthRules

**Value:** 1220

Specifies a Health Rules [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### HealthReports

**Value:** 1221

Specifies a Health Reports library.

###### InvalidType

**Value:** -1

Not used.

###### AccessRequest

**Value:** 160

Specifies a type of list that contains access requests. Access requests can be made for a site or for a list or for a list item. It also contains external user invitations.[<66>](#Appendix_A_66" \o "Product behavior note 66)

###### DesignCatalog

**Value:** 124

Specifies a type of list that contains designs.[<67>](#Appendix_A_67" \o "Product behavior note 67) 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.

###### MaintenanceLogs

**Value:** 175

Specifies a maintenance log.[<68>](#Appendix_A_68" \o "Product behavior note 68)

###### AppDataCatalog

**Value:** 125

Specifies an [**app (1)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79) data catalog.

###### TasksWithTimelineAndHierarchy

**Value:** 171

Specifies a tasks list with hierarchy and a timeline.

###### MySiteDocumentLibrary

**Value:** 700

Specifies a My Site Document library, the default document library on a user's My Site.[<69>](#Appendix_A_69" \o "Product behavior note 69)

###### DeveloperSiteDraftApps

**Value:** 1230

Stores a list of [**apps (1)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79) deployed in a Developer Site. [<70>](#Appendix_A_70" \o "Product behavior note 70)

###### HelpLibrary

**Value:** 151

Specifies a help library.

###### AccessApp

**Value:** 3100

The list is an access app entry point.

###### SharingLinks

**Value:** 3300

The list is a list of sharing links.

#### Microsoft.SharePoint.Client.MoveOperations

**ShortName:** SP.MoveOperations

**Flag:** true

Specifies criteria for how to move files.

##### Field Values

###### None

**Value:** 0

Specifies no move operation is specified.

###### Overwrite

**Value:** 1

Specifies a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) with the same name is to be overwritten if it exists.

###### AllowBrokenThickets

**Value:** 8

Specifies the move operation is to be finished even if [**thicket supporting files**](#gt_b4f58cfb-6d7b-486b-b53b-2dd84fa6d1ee) are separated from the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

###### BypassApprovePermission

**Value:** 64

Specifies approval [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) are not required if there are no [**published**](#gt_8ffc383a-d4f1-4515-a8b5-874d84ab2d2b) [**versions**](#gt_a00b8f2a-178a-4107-ac92-bdd95492f3e1) of the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

#### Microsoft.SharePoint.Client.Navigation

**TypeId:** {D6AA87A7-71B3-4BBE-BCA7-00AB1BD7D37F}

**ShortName:** SP.Navigation

Represents navigation operations at the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) level.

##### Properties

###### Scalar Properties

UseShared

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) 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.

###### ObjectPath Properties

QuickLaunch

**Type:** Microsoft.SharePoint.Client.NavigationNodeCollection

**Accessibility:** Read Only

The collection of [**navigation nodes**](#gt_5b554102-e6fe-416a-a371-724298fea792) that correspond to links in the [**Quick Launch**](#gt_a8e96ff8-7028-47b4-afaa-4d06213d3bc8) area of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). MUST be NULL if the Quick Launch is unavailable.

TopNavigationBar

**Type:** Microsoft.SharePoint.Client.NavigationNodeCollection

**Accessibility:** Read Only

The collection of [**navigation nodes**](#gt_5b554102-e6fe-416a-a371-724298fea792) that correspond to links in the [**link bar**](#gt_d1cce096-f894-49df-bb72-88f7e67342d1) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). MUST be NULL if the top navigation bar is defined in a different site or if the top navigation bar node collection has been deleted.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetNodeById

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

Gets the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) (**SP.NavigationNode**, section [3.2.5.96](#Section_4785744b2c744c37b1203e8ef99a6f4d)) by using an integer identifier.[<71>](#Appendix_A_71" \o "Product behavior note 71)

**Parameters:**

*id:* Specifies the identifier of the navigation node.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

#### Microsoft.SharePoint.Client.NavigationNode

**TypeId:** {CD5D6053-7FFD-41AC-BF36-7B856320A122}

**ShortName:** SP.NavigationNode

Represents the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) to a specific [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) and provides access to properties and methods for manipulating the ordering of the navigation node in a navigation node collection.

##### Properties

###### Scalar Properties

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the identifier for the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**anchor text**](#gt_27d654b3-8c67-4602-bf46-90cf52e557b2) for the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) link.

It MUST NOT be NULL. Its length MUST be equal to or less than 256.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) stored with the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792).

MUST NOT be a URL of relative form if the URL corresponds to a page that is outside of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

It MUST be a URL of relative or absolute form.

IsExternal

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) value that specifies whether the navigation node URL corresponds to a page outside the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).[<72>](#Appendix_A_72" \o "Product behavior note 72)

IsVisible

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) value that specifies whether the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) is visible.[<73>](#Appendix_A_73" \o "Product behavior note 73)

IsDocLib

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a Boolean value that specifies whether the navigation node points to a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

###### ObjectPath Properties

Children

**Type:** Microsoft.SharePoint.Client.NavigationNodeCollection

**Accessibility:** Read Only

The collection of child nodes of the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792).

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792).

**Parameters:** None

Update

**Return Type:** None

Updates property changes that have been made to the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792).

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.NavigationNodeCollection

**TypeId:** {2D818ED7-8FEF-4A1C-BCEB-A9404DFA482F}

**ShortName:** SP.NavigationNodeCollection

A collection of [**navigation nodes**](#gt_5b554102-e6fe-416a-a371-724298fea792).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

MoveAfter

**Return Type:** None

Moves a [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) after a specified navigation node in the navigation node collection.[<74>](#Appendix_A_74" \o "Product behavior note 74)

**Parameters:**

*nodeId:* Identifier of the navigation node that is moved.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*previousNodeId:* Identifier of the navigation node after which the node identified by *nodeId* moves to.

Type: CSOM Int32

###### ObjectPath Methods

Add

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

Creates a [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) and adds it to the collection.

**Parameters:**

*parameters:* Describes the node to be created.

Type: Microsoft.SharePoint.Client.NavigationNodeCreationInformation

It MUST NOT be NULL.

GetById

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

Returns the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) with the specified identifier.[<75>](#Appendix_A_75" \o "Product behavior note 75) 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**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetByIndex

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

Returns the [**navigation node**](#gt_5b554102-e6fe-416a-a371-724298fea792) at the specified index.[<76>](#Appendix_A_76" \o "Product behavior note 76)

**Parameters:**

*index:* The index of the navigation node to be returned.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

#### Microsoft.SharePoint.Client.NavigationNodeCreationInformation

**TypeId:** {7AAAA605-79A9-4FDA-AE1E-DB952E5083E0}

**ShortName:** SP.NavigationNodeCreationInformation

Describes a new navigation node to be created.

##### Properties

###### Scalar Properties

AsLastNode

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the navigation node will be created as the last node in the navigation node collection. Has no effect if **PreviousNode** is not null.

IsExternal

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets a Boolean value that specifies whether the navigation node URL can correspond to a page outside the site collection.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the string to be used as the anchor text for the node navigation link.

Its length MUST be equal to or less than 256.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the URL to be stored with the navigation node.

###### ObjectPath Properties

PreviousNode

**Type:** Microsoft.SharePoint.Client.NavigationNode

**Accessibility:** Read/Write

Gets or sets a navigation node after which the new navigation node will appear in the navigation node collection.

#### Microsoft.SharePoint.Client.PageType

**ShortName:** SP.PageType

**Flag:** false

As specified in [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.1.2.14.

##### Field Values

###### Invalid

**Value:** -1

Specifies a page that does not correspond to a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) or a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f).

###### DefaultView

**Value:** 0

Specifies a page that is the [**default view**](#gt_4f78cd26-e715-4c7c-a05b-cec6a5268ef5) for a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### NormalView

**Value:** 1

Specifies a page that is a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) and is not the [**default view**](#gt_4f78cd26-e715-4c7c-a05b-cec6a5268ef5) for a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### DialogView

**Value:** 2

Specifies a page that can be displayed within a dialog box on a client computer.

###### View

**Value:** 3

Specifies a page that is a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

###### DisplayForm

**Value:** 4

Specifies a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) for displaying a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

###### DisplayFormDialog

**Value:** 5

Specifies a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) for displaying a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) within a dialog box on a client computer.

###### EditForm

**Value:** 6

Specifies a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) for editing a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

###### EditFormDialog

**Value:** 7

Specifies a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) for editing a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that can be displayed within a dialog box on a client computer.

###### NewForm

**Value:** 8

Specifies a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) for creating a new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

###### NewFormDialog

**Value:** 9

Specifies a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) for creating a new [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that can be displayed within a dialog box on a client computer.

###### SolutionForm

**Value:** 10

Specifies a [**list form**](#gt_b7273614-0873-40e7-9d38-edd0fc6b2a8f) that is represented by a [**form template (.xsn) file**](#gt_2a72ec89-d66d-4dbf-ad54-0bf1b66c996e) and is used for displaying or editing a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

###### PAGE\_MAXITEMS

**Value:** 11

Represents the total number of valid page types.

#### Microsoft.SharePoint.Client.Principal

**TypeId:** {8A76E712-17A1-4A40-B2DF-CCA7C060D78F}

**ShortName:** SP.Principal

Specifies a base type that represents a user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that can be assigned permissions to control security.

##### Properties

###### Scalar Properties

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) identifier for the user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

Its value MUST be equal to or greater than 1. Its value MUST be equal to or less than 2147483647.

LoginName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

If this [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) represents a user, **LoginName** specifies the [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) of the user. For a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac), it specifies the name of the group.

PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) represented by this [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

IsHiddenInUI

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) is hidden in the user interface (UI).[<77>](#Appendix_A_77" \o "Product behavior note 77)

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.PropertyValues

**TypeId:** {3973524D-2D5A-4683-AA39-38A2ACC6E63C}

**ShortName:** SP.PropertyValues

Contains the collection of name/value pairs of all the [**CSOM expando fields**](#gt_d5c5ed4a-b218-4497-be68-b36fe5eeac6b).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

SetFieldValue

**Return Type:** None

Sets the value of the corresponding field to the value of the specified object.

**Parameters:**

*fieldName:* A string that contains the field name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*value:* An object whose value is to be used to set this field.

Type: [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.QuickLaunchOptions

**ShortName:** SP.QuickLaunchOptions

**Flag:** false

Specifies whether the list will be displayed on the Quick Launch Bar or not.

##### Field Values

###### Off

**Value:** 0

Indicates that the list will not be displayed on the Quick Launch Bar.

###### On

**Value:** 1

Indicates that the list will be displayed on the Quick Launch Bar.

###### DefaultValue

**Value:** 2

Indicates that the decision of the list being displayed on the Quick Launch Bar will be based on the list template's OnQuickLaunch property.

#### Microsoft.SharePoint.Client.RecycleBinItem

**TypeId:** {5EBF462E-9E9A-440C-992B-ABBB3916563D}

**ShortName:** SP.RecycleBinItem

Represents a [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) in the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) of a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) or a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

##### Properties

###### Scalar Properties

AuthorEmail

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the [**email address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) of the [**user**](#gt_d490bbeb-9916-4228-b3b9-5c5084e5e0e5) who originally created the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

AuthorName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the [**user display name**](#gt_fd668bed-97a6-4a70-8e93-22d8b3a38f02) of the [**user**](#gt_d490bbeb-9916-4228-b3b9-5c5084e5e0e5) who originally created the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be NULL.

DeletedByEmail

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the [**email address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) of the [**user**](#gt_d490bbeb-9916-4228-b3b9-5c5084e5e0e5) who deleted the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

DeletedByName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the [**user display name**](#gt_fd668bed-97a6-4a70-8e93-22d8b3a38f02) of the [**user**](#gt_d490bbeb-9916-4228-b3b9-5c5084e5e0e5) who deleted the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be NULL.

DeletedDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies when the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) was moved to the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3).

DeletedDateLocalFormatted

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies when, in the default [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab) for the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) was moved to the Recycle Bin (1).

DirName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3) of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) or [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) that originally contained the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be NULL. It MUST be a URL of relative form. Its length MUST be equal to or less than 256.

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be an empty GUID.

ItemState

**Type:** Microsoft.SharePoint.Client.RecycleBinItemState

**Accessibility:** Read Only

Specifies the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) stage of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be None.

ItemType

**Type:** Microsoft.SharePoint.Client.RecycleBinItemType

**Accessibility:** Read Only

Specifies the type of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be None.

LeafName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**leaf name**](#gt_c3c1a51b-f3e1-40b2-8e48-ae956e1975f5) of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be NULL. Its length MUST be equal to or less than 260. It MUST NOT contain the following characters: \x00-\x1F, \x22, \x23, \x25, \x26, \x2A, \x3A, \x3C, x3E, \x3F, \x5C and \x7B-\x9F.

Size

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the size of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) in bytes.

Its value MUST be equal to or greater than 0.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the title of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

###### ObjectPath Properties

Author

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who created the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

DeletedBy

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user who deleted the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Permanently deletes the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

**Parameters:** None

MoveToSecondStage

**Return Type:** None

Moves the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) from the [**first-stage Recycle Bin**](#gt_970ee609-0ab2-458a-a2d1-b144afa187c5) to the [**second-stage Recycle Bin**](#gt_22bbbc9c-25bb-4f5b-957f-591572cba75e) if the **SecondStageRecycleBinQuota** property on the current [**web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb) is not 0. Otherwise, deletes the item.

**Parameters:** None

Restore

**Return Type:** None

Restores the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) to its original location.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024816 | Microsoft.SharePoint.SPException | Another [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) or [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) with the same name already exists in the original location. |
| -2147024713 | Microsoft.SharePoint.SPException | Another [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) with the same name already exists in the original location. |
| -2130575168 | Microsoft.SharePoint.SPException | Recycle Bin item contains duplicate [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) values for a field (2) where **Field.EnforceUniqueValues** is "true". |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RecycleBinItemCollection

**TypeId:** {9BFB60CF-1ACA-484C-A845-5F2D4EF20865}

**ShortName:** SP.RecycleBinItemCollection

Specifies a collection of [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteAll

**Return Type:** None

Permanently deletes all [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

**Parameters:** None

DeleteAllSecondStageItems

**Return Type:** None

Permanently deletes all [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) in the [**second-stage Recycle Bin**](#gt_22bbbc9c-25bb-4f5b-957f-591572cba75e).

**Parameters:** None

MoveAllToSecondStage

**Return Type:** None

Moves all [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) from the [**first-stage Recycle Bin**](#gt_970ee609-0ab2-458a-a2d1-b144afa187c5) to the [**second-stage Recycle Bin**](#gt_22bbbc9c-25bb-4f5b-957f-591572cba75e) if the **SecondStageRecycleBinQuota** property of the current [**web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb) is not 0. Otherwise, permanently deletes all Recycle Bin items.

**Parameters:** None

RestoreAll

**Return Type:** None

Restores all [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) to their original locations.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024816 | Microsoft.SharePoint.SPException | Another [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) or [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) with the same name already exists in the original location. |
| -2147024713 | Microsoft.SharePoint.SPException | Another [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) with the same name already exists in the original location. |
| -2130575168 | Microsoft.SharePoint.SPException | Recycle Bin item contains duplicate [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) values for a field (2) where **Field.EnforceUniqueValues** is "true". |

###### ObjectPath Methods

GetById

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

Returns the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) with the specified identifier from the collection.

**Parameters:**

*id:* Specifies the identifier of the Recycle Bin item.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### Microsoft.SharePoint.Client.RecycleBinItemState

**ShortName:** SP.RecycleBinItemState

**Flag:** false

Specifies the Recycle Bin stage of the Recycle Bin item.

##### Field Values

###### None

**Value:** 0

The item state is not specified.

###### FirstStageRecycleBin

**Value:** 1

Specifies that the item is in the end-user Recycle Bin.

###### SecondStageRecycleBin

**Value:** 2

Specifies that the item is in the second stage of the site-collection Recycle Bin.

#### Microsoft.SharePoint.Client.RecycleBinItemType

**ShortName:** SP.RecycleBinItemType

**Flag:** false

Specifies the type of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b).

##### Field Values

###### None

**Value:** 0

The type of the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is not specified.

###### File

**Value:** 1

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

###### FileVersion

**Value:** 2

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**historical version**](#gt_56e98ee1-9aaf-498f-b120-5fc43df95dcb) of a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

###### ListItem

**Value:** 3

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

###### List

**Value:** 4

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Folder

**Value:** 5

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

###### FolderWithLists

**Value:** 6

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) that contains a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### Attachment

**Value:** 7

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is an [**attachment**](#gt_5d07b95e-85c9-42c0-9139-ff06b787b459).

###### ListItemVersion

**Value:** 8

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**historical version**](#gt_56e98ee1-9aaf-498f-b120-5fc43df95dcb) of a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

###### CascadeParent

**Value:** 9

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that is the parent of one or more related list items.

###### Web

**Value:** 10

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<78>](#Appendix_A_78" \o "Product behavior note 78)

###### App

**Value:** 11

Specifies that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) is an [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

#### Microsoft.SharePoint.Client.RelatedField

**TypeId:** {A91DEB1A-2F24-4AC5-A1A6-3B1E530C307F}

**ShortName:** SP.RelatedField

Represents a Lookup Field that points to a given list on a [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac).

##### Properties

###### Scalar Properties

FieldId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the field id of the corresponding Lookup Field.

ListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the ID of the List containing the corresponding Lookup Field.

RelationshipDeleteBehavior

**Type:** Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**Accessibility:** Read Only

Specifies the delete behavior of the corresponding Lookup Field.

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the ID of the Web containing the corresponding Lookup Field.

###### ObjectPath Properties

LookupList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read Only

Specifies the List that the corresponding Lookup Field looks up to.

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RelatedFieldCollection

**TypeId:** {4703193F-E3ED-445B-8612-7C6218E0EB5A}

**ShortName:** SP.RelatedFieldCollection

Represents a collection of Lookup Fields that point to given lists.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetByFieldId

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

Returns a **SP.RelatedField** (section [3.2.5.107](#Section_08df9bd4e6de447fb5a72df0fd930c31)) specified by the identifier of the **SP.RelatedField**.

**Parameters:**

*fieldId:* Specifies the identifier of the **SP.RelatedField**.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

**ShortName:** SP.RelationshipDeleteBehaviorType

**Flag:** false

Defines the type of behavior that happens when you delete a parent item of two related lists.

##### Field Values

###### None

**Value:** 0

Nothing happens when you delete a parent item, and we leave the child item pointing to the parent as an orphan.

###### Cascade

**Value:** 1

A cascade delete happens when you delete a parent item, deleting all related child items of the related list.

###### Restrict

**Value:** 2

A parent item having any child items in the related list cannot be deleted.

#### Microsoft.SharePoint.Client.RequestContext

**TypeId:** {3747ADCD-A3C3-41B9-BFAB-4A64DD2F1E0A}

**ShortName:** SP.RequestContext

Provides basic WSS context information: site, web, list, and list item.

Use this class to return context information about such objects as the current Web application, site collection, site, list, or list item.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

Current

**Type:** Microsoft.SharePoint.Client.RequestContext

**Accessibility:** Read Only

Returns the SPContext for the current HttpContext.

List

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read Only

Returns the list that is associated with the Windows SharePoint Services context.

Site

**Type:** Microsoft.SharePoint.Client.Site

**Accessibility:** Read Only

Returns the SPSite object

It MUST NOT be NULL.

Web

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read Only

Gets the Web site that is associated with the Windows SharePoint Services context.

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetRemoteContext

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

Returns the SPContext for the mounted folder. Returns null if this is not an attempt to render or act upon a mounted folder.

**Parameters:** None

#### Microsoft.SharePoint.Client.RoleAssignment

**TypeId:** {07DA03BE-4D19-48F3-9C5F-7C67B134A93B}

**ShortName:** SP.RoleAssignment

Specifies the [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) for a user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) on a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

##### Properties

###### Scalar Properties

PrincipalId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the identifier of the user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) corresponding to the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0).[<79>](#Appendix_A_79" \o "Product behavior note 79)

###### ObjectPath Properties

Member

**Type:** Microsoft.SharePoint.Client.Principal

**Accessibility:** Read Only

Specifies the user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) corresponding to the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0).

It MUST NOT be NULL. The identifier of the user or group MUST be greater than zero.

RoleDefinitionBindings

**Type:** Microsoft.SharePoint.Client.RoleDefinitionBindingCollection

**Accessibility:** Read Only

Specifies a collection of [**role definitions**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) for this [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0).

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Removes the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) from the parent role assignment collection.

**Parameters:** None

ImportRoleDefinitionBindings

**Return Type:** None

Imports the specified [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) bindings into the collection of role definitions for the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0).

**Parameters:**

*roleDefinitionBindings:* Specifies the role definition bindings to be imported.

Type: Microsoft.SharePoint.Client.RoleDefinitionBindingCollection

Update

**Return Type:** None

Updates the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) with changes that have been made to its properties.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RoleAssignmentCollection

**TypeId:** {2690207A-E174-4D49-B2CA-CFF663225DC1}

**ShortName:** SP.RoleAssignmentCollection

The [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) represents a collection of [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) for each [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

Groups

**Type:** Microsoft.SharePoint.Client.GroupCollection

**Accessibility:** Read Only

A collection of [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that is associated with this [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) collection.[<80>](#Appendix_A_80" \o "Product behavior note 80)

##### Methods

###### Scalar Methods

AddRoleAssignment

**Return Type:** None

Adds a [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) to the role assignment collection.[<81>](#Appendix_A_81" \o "Product behavior note 81)

**Parameters:**

*principalId:* Specifies the user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) of the role assignment.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*roleDefId:* Specifies the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) of the role assignment.

Type: CSOM Int32

RemoveRoleAssignment

**Return Type:** None

Removes the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) with the specified user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) from the collection.[<82>](#Appendix_A_82" \o "Product behavior note 82)

**Parameters:**

*principalId:* Specifies the user or group of the role assignment.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*roleDefId:* Specifies the identifier of the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) of the role assignment.

Type: CSOM Int32

###### ObjectPath Methods

Add

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

Adds a [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) to the role assignment collection.

**Parameters:**

*principal:* An [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) that represents the user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) 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**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) 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.

GetByPrincipal

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

Retrieves the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) based on the specified user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

**Parameters:**

*principalToFind:* An object (1) that represents the user or group.

Type: Microsoft.SharePoint.Client.Principal

It MUST NOT be NULL.

GetByPrincipalId

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

Retrieves the [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) based on the **Id** property of the specified user or [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

**Parameters:**

*principalId:* An identifier of the object (1) that represents the user or group.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

#### Microsoft.SharePoint.Client.RoleDefinition

**TypeId:** {AA7ECB4A-9C7E-4AD9-BD20-58A2775E5AD7}

**ShortName:** SP.RoleDefinition

Defines a single [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae), including a name, description, management properties, and a set of [**rights**](#gt_893f71c9-f98e-4328-8662-9eb65467adca).

##### Properties

###### Scalar Properties

BasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read/Write

Specifies the base permissions for the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae).

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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) inherits permission levels from a [**parent site**](#gt_832a0b82-2411-4e8c-9837-fd674450060d), and permission levels cannot be customized. |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description of the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae).

Its length MUST be equal to or less than 512.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | [**Site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) inherits permission levels from a [**parent site**](#gt_832a0b82-2411-4e8c-9837-fd674450060d), and permission levels cannot be customized. |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) is displayed.

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the identifier of the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae).

Its value MUST be equal to or greater than 1073741824.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) 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**](#gt_832a0b82-2411-4e8c-9837-fd674450060d). |

Order

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the order position of the [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) Permission Levels page.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | The user cannot customize permission levels in a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) with inherited permission levels. |

RoleTypeKind

**Type:** Microsoft.SharePoint.Client.RoleType

**Accessibility:** Read Only

Specifies the type of the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae).

Its value MUST be equal to or greater than 0. Its value MUST be equal to or less than 5.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPException | Role definition type is either Guest or Administrator. |

Update

**Return Type:** None

Updates the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) 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**](#gt_832a0b82-2411-4e8c-9837-fd674450060d). |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RoleDefinitionBindingCollection

**TypeId:** {07BF1941-6953-4761-B114-58374B4AAF57}

**ShortName:** SP.RoleDefinitionBindingCollection

Specifies the [**role definitions**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) that are bound to a [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Add

**Return Type:** None

Adds the specified [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) to the binding collection.

**Parameters:**

*roleDefinition:* Specifies the role definition to be added.

Type: Microsoft.SharePoint.Client.RoleDefinition

It MUST NOT be NULL.

Remove

**Return Type:** None

Removes the specified [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) from the binding collection.

**Parameters:**

*roleDefinition:* Specifies the role definition to be removed.

Type: Microsoft.SharePoint.Client.RoleDefinition

It MUST NOT be NULL.

RemoveAll

**Return Type:** None

Removes all [**role definitions**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) from the binding collection.

**Parameters:** None

###### ObjectPath Methods

GetById

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

Returns a **SP.RoleDefinition** (section [3.2.5.113](#Section_0475046e87aa4c21b26dd218d57cbf1b)) specified by the identifier of that **SP.RoleDefinition**.[<83>](#Appendix_A_83" \o "Product behavior note 83)

**Parameters:**

*id:* Specifies the identifier of the SP.RoleDefinition.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.ArgumentException | The [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) that the **SP.RoleDefinition** represents does not exist in the collection at the given scope. |

CSOM Constructor

Create an object for holding a collection of [**role definitions**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) binding information.[<84>](#Appendix_A_84" \o "Product behavior note 84)

**Parameters:** None

#### Microsoft.SharePoint.Client.RoleDefinitionCollection

**TypeId:** {964B9AB0-D026-4487-99D1-E06450963CC9}

**ShortName:** SP.RoleDefinitionCollection

Represents the collection of [**role definitions**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) that are available within the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

RecreateMissingDefaultRoleDefinitions

**Return Type:** None

Recreates missing default role definitions. Requires that Microsoft.SharePoint.SPWeb has unique role definitions.

**Parameters:** None

###### ObjectPath Methods

Add

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

Adds a new [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) to the collection, based on the passed parameter.

**Parameters:**

*parameters:* An [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) |

GetById

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

Retrieves the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) 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**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetByName

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

Returns the [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) matching the *name* provided.

**Parameters:**

*name:* Specifies name of role definition.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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.

GetByType

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

Returns [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) of the specified type from the collection.

**Parameters:**

*roleType:* Specifies the role type. Role type MUST NOT be None.

Type: Microsoft.SharePoint.Client.RoleType

#### Microsoft.SharePoint.Client.RoleDefinitionCreationInformation

**TypeId:** {59EDDF82-1018-4677-8067-69E16EFD3495}

**ShortName:** SP.RoleDefinitionCreationInformation

The parameters to create a role definition.

##### Properties

###### Scalar Properties

BasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read/Write

Specifies the permissions for the role.

It MUST NOT be NULL.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a description of the role definition.

Its length MUST be equal to or less than 512.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**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: []/\:|<>+=;,?\*'@

Order

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the order in which roles MUST be displayed in the WFE.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.RoleType

**ShortName:** SP.RoleType

**Flag:** false

Specifies the types of [**role definitions**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) that are available for users and [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

##### Field Values

###### None

**Value:** 0

The [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has no rights on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### Guest

**Value:** 1

The [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has limited right to view pages and specific page elements. This role is used to give users access to a particular page, [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), or item in a list, without granting rights to view the entire [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). Users cannot be added explicitly to the guest role; users who are given access to lists or [**document libraries**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) by using permissions for a specific list are added automatically to the guest role. The guest role cannot be customized or deleted.

###### Reader

**Value:** 2

The [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has a right to view items, personalize [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be), use [**alerts**](#gt_5038d42c-6611-4cfc-9c6a-d6a9d03a10e5), and create a [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12). A reader can only read a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba); the reader cannot add content. When a reader creates a site, the reader becomes the site owner and a [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) of the administrator role for the new site. This does not affect the user's role membership for any other site. Rights included are *CreateSSCSite*, *ViewListItems*, and *ViewPages*.

###### Contributor

**Value:** 3

The [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has reader rights, and a right to add items, edit items, delete items, manage [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) permissions, manage personal views, personalize [**Web Part Pages**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682), 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 or [**document libraries**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35), but they can add content to existing lists and document libraries.

###### WebDesigner

**Value:** 4

The [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has contributor rights and a right to cancel check out, delete items, manage [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), 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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) and create new lists or [**document libraries**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

###### Administrator

**Value:** 5

The [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) 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**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) of the Administrator role always have access to, or can grant themselves access to, any item in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### Editor

**Value:** 6

This [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) has contributor rights and the right to create, manage and delete lists. Includes all rights in the contributor role and "ManageLists". Editors can create new [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) and [**document libraries**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

#### Microsoft.SharePoint.Client.SecurableObject

**TypeId:** {1B1BF348-994E-44FD-823F-0748F5AD94C8}

**ShortName:** SP.SecurableObject

An [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) that can be assigned security permissions.

The HasUniqueRoleAssignments property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

HasUniqueRoleAssignments

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) are uniquely defined for this [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) or inherited from a parent securable object. If the value is "false", role assignments are inherited from a parent securable object.

###### ObjectPath Properties

RoleAssignments

**Type:** Microsoft.SharePoint.Client.RoleAssignmentCollection

**Accessibility:** Read Only

The [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) for the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

FirstUniqueAncestorSecurableObject

**Type:** Microsoft.SharePoint.Client.SecurableObject

**Accessibility:** Read Only

Specifies the object where [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) for this object are defined.[<85>](#Appendix_A_85" \o "Product behavior note 85)

##### Methods

###### Scalar Methods

BreakRoleInheritance

**Return Type:** None

Creates unique [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) for the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff). If the securable object already has unique role assignments, the protocol server MUST NOT alter any role assignments.

**Parameters:**

*copyRoleAssignments:* Specifies whether to copy the role assignments from the parent securable object.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

If the value is "false", the collection of role assignments MUST contain only 1 role assignment containing the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) after the operation.

*clearSubscopes:* If the securable object is a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), and the *clearSubscopes* parameter is "true", the role assignments for all child securable objects in the current site and in the sites that inherit role assignments from the current site MUST be cleared and those securable objects inherit role assignments from the current site after this call. If the securable object is a site, 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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) MUST remain unchanged. If the securable object is not a site, 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, 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 |

ResetRoleInheritance

**Return Type:** None

Resets the role inheritance for the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) and inherits [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) from the parent securable object.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | There are uncommitted changes for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.Site

**TypeId:** {E1BB82E8-0D1E-4E52-B90C-684802AB4EF6}

**ShortName:** SP.Site

Represents a collection of [**sites**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) in a [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), including a [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12) and all of its [**subsites**](#gt_837ca080-dd1b-4fad-bee8-0fc7d22ea384).

The CanUpgrade, UpgradeInfo and Usage properties are not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

AllowDesigner

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**designer**](#gt_6bb6285f-f5b8-45e5-8f32-2a23472532b8) can be used on this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa). See **Microsoft.SharePoint.Client.Web.AllowDesignerForCurrentUser**, which is the scalar property used to determine the behavior for the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "true".

AllowMasterPageEditing

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether master page editing is allowed on this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa). See **Microsoft.SharePoint.Client.Web.AllowMasterPageEditingForCurrentUser**, which is the scalar property used to determine the behavior for the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "false".

AllowRevertFromTemplate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) 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**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "false".

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) that identifies the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

MaxItemsPerThrottledOperation

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read Only

Specifies the maximum number of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) allowed to be returned for each retrieve request before throttling occurs. If throttling occurs, list items MUST NOT be returned.

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12) in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

This property MUST begin with a forward slash ("/").

ShowUrlStructure

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) structure of this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) is viewable. See **Microsoft.SharePoint.Client.Web.ShowURLStructureForCurrentUser**, which is the scalar property used to determine the behavior for the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "false".

UIVersionConfigurationEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**visual upgrade**](#gt_08a8e66e-28a6-4a6a-b8ba-b81993b5c427) UI for this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) is displayed.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the full [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), including [**host name**](#gt_fe6fd875-b30a-44bb-850e-10733990f04c), port number and path.

This property MUST NOT end with a forward slash ("/").

Usage

**Type:** Microsoft.SharePoint.Client.UsageInfo

**Accessibility:** Read Only

Specifies usage information about the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), including bandwidth, storage, and the number of visits to the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

CompatibilityLevel

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the compatibility level of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) for the purpose of major version level compatibility checks.[<86>](#Appendix_A_86" \o "Product behavior note 86)

LockIssue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the comment that is used when a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) is locked.[<87>](#Appendix_A_87" \o "Product behavior note 87)

ReadOnly

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) is read-only and is unavailable for write access.[<88>](#Appendix_A_88" \o "Product behavior note 88)

CanUpgrade

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) is in an implementation-specific valid state for site collection upgrade, "true" if it is; otherwise, "false".[<89>](#Appendix_A_89" \o "Product behavior note 89)

AllowSelfServiceUpgrade

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a version-to-version [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade is allowed on this site collection.[<90>](#Appendix_A_90" \o "Product behavior note 90) "true" if it is; otherwise, "false".

AllowSelfServiceUpgradeEvaluation

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**upgrade evaluation site collection**](#gt_50fef8aa-5a85-421f-875f-03328c018fb8) is allowed to be created for this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).[<91>](#Appendix_A_91" \o "Product behavior note 91) "true" if it is; otherwise, "false".

PrimaryUri

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the primary [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) of this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), including the host name, port number, and path.

UpgradeReminderDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies a date, after which [**site collection administrators**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) will be reminded to upgrade the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

UpgradeInfo

**Type:** Microsoft.SharePoint.Client.UpgradeInfo

**Accessibility:** Read Only

Specifies the upgrade information of this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

Upgrading

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) is currently being upgraded.

ShareByLinkEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the user will be able to share links to the documents that can be accessed without signing in.

AllowCreateDeclarativeWorkflow

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**designer**](#gt_6bb6285f-f5b8-45e5-8f32-2a23472532b8) can be used to create [**declarative workflows**](#gt_c7aba7d2-b309-40cf-9280-a84b2333347a) on this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa). See **Microsoft.SharePoint.Client.Web.AllowCreateDeclarativeWorkflowForCurrentUser** (section [3.2.5.143.1.1.31](#Section_eba2a79bfa424169a390dd2773df624f)), which is the scalar property used to determine the behavior for the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "true".

AllowSaveDeclarativeWorkflowAsTemplate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**designer**](#gt_6bb6285f-f5b8-45e5-8f32-2a23472532b8) can be used to save [**declarative workflows**](#gt_c7aba7d2-b309-40cf-9280-a84b2333347a) as a template on this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa). See **Microsoft.SharePoint.Client.Web.AllowSaveDeclarativeWorkflowAsTemplateForCurrentUser** (section [3.2.5.143.1.1.32](#Section_c7de9d10aa604abdb7fba1185b8d17b1)), which is the scalar property used to determine the behavior for the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "true".

AllowSavePublishDeclarativeWorkflow

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**designer**](#gt_6bb6285f-f5b8-45e5-8f32-2a23472532b8) can be used to save or publish [**declarative workflows**](#gt_c7aba7d2-b309-40cf-9280-a84b2333347a) on this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa). See **Microsoft.SharePoint.Client.Web.AllowSavePublishDeclarativeWorkflowForCurrentUser** (section [3.2.5.143.1.1.33](#Section_218162df65d0406b8fbb155b93369ec6)), which is the scalar property used to determine the behavior for the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "true".

RequiredDesignerVersion

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the required minimum version of the [**designer**](#gt_6bb6285f-f5b8-45e5-8f32-2a23472532b8) that can be used on this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa). The default, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is "15.0.0.0".

AuditLogTrimmingRetention

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Gets or sets the number of days of audit log data to retain. If unset and audit trimming is enabled, the retention defaults to one schedule window of the administrator-configured schedule for trimming.

CurrentChangeToken

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

**Accessibility:** Read Only

Gets the current change token that is used in the change log for the site collection.

ExternalSharingTipsEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) value that specifies whether users will be greeted with a notification bar telling them that the site can be shared with external users. The value is true if the notification bar is enabled; otherwise, it is false.

NeedsB2BUpgrade

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the site needs a Build-to-Build upgrade.

SandboxedCodeActivationCapability

**Type:** Microsoft.SharePoint.Client.SandboxedCodeActivationCapabilities

**Accessibility:** Read/Write

Gets or sets the sandboxed code capability for the site collection. The default is set to Check.

ShareByEmailEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

When true, users will be able to grant permissions to guests for resources within the site collection.

TrimAuditLog

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

When this flag is set for the site, the audit events are trimmed periodically.

UpgradeScheduled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the upgrade has been scheduled. It can only be set to false by a farm administrator. To set it to true, set the **UpgradeScheduledDate** (section [3.2.5.119.1.1.34](#Section_208d7df7e4ac4c7da913bdc4c498dfb1)) to a future time.

UpgradeScheduledDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read/Write

Specifies the upgrade scheduled date in [**UTC (Coordinated Universal Time)**](#gt_6189b117-ca53-47a1-9eb3-7ea5ddc215dd). Only the Date part is used. If **UpgradeScheduled** (section [3.2.5.119.1.1.33](#Section_8be4dc6885b548c7ab479b9b57ad0a86)) is false, returns **SqlDateTime.MinValue**.

DisableCompanyWideSharingLinks

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether company-wide sharing links are disabled on all child sites. True means company-wide sharing links are disabled throughout the site collection, regardless of the settings on the root or child sites. False means each site can individually decide whether to turn on or off company-wide sharing links.

###### ObjectPath Properties

Features

**Type:** Microsoft.SharePoint.Client.FeatureCollection

**Accessibility:** Read Only

Specifies the collection of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) features for the site collection that contains the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

RecycleBin

**Type:** Microsoft.SharePoint.Client.RecycleBinItemCollection

**Accessibility:** Read Only

Specifies the collection of [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) for the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

RootWeb

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read Only

Specifies the [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

UserCustomActions

**Type:** Microsoft.SharePoint.Client.UserCustomActionCollection

**Accessibility:** Read Only

Specifies the collection of [**user custom actions**](#gt_37e5b923-9192-4feb-86fd-668cd85bfcc9) for the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

Owner

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read/Write

Specifies the owner of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).[<92>](#Appendix_A_92" \o "Product behavior note 92)

EventReceivers

**Type:** Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**Accessibility:** Read Only

Specifies the collection of [**event receivers**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) of this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<93>](#Appendix_A_93" \o "Product behavior note 93)

Audit

**Type:** Microsoft.SharePoint.Client.Audit

**Accessibility:** Read Only

Gets an audit store that is attached to the site collection.

SecondaryContact

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read/Write

Gets or sets the secondary contact that is used for the site collection. The user that is specified by the **SecondaryContact** property SHOULD NOT be identical to the user that is specified by the **Owner** (section [3.2.5.119.1.2.5](#Section_b0be6cb780d34c1a92d083cb6d4a9c95)) property.

##### Methods

###### Scalar Methods

CreateMigrationJob

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Creates a new migration import job and queues it up for later processing by a separate timer job. The job will consume a well formed (pre-defined format) import package that is located in the Azure Blob Storage Containers specified in this method. The SLA for migration job processing is controlled through pre-configured queue and work-load throttling settings, and there is no guaranteed SLA or return time for a submitted job.

Once processed, the job results are placed into log files at the *azureContainerManifestUri* location if that was set to be writable in the SAS token specified in the URI. The same output log is also placed at the "\_catalogs/MaintenanceLogs" location of the target site collection as a text file. The logs will only be copied to the destination locations once the job has finished and is removed from the queue. The output of the log files SHOULD be examined and verified to determine if further work is required post-import.

The unique identifier for the migration job is returned if the job is successfully queued, or if unsuccessful, a null value will be returned. The migration job unique identifier can be used to query the migration job status while it is in the queue or being processed by using the **GetMigrationJobStatus** (section [3.2.5.119.2.1.5](#Section_a2f3c554c840408fa5db257547a5347d)) method.

**Parameters:**

*gWebId:* The unique identifier for the targeted destination web for the package import. Addition information and identifiers for the import are specified within the import package itself.

Type: CSOM GUID

*azureContainerSourceUri:* A valid URL including SAS token for accessing the Azure Blob Storage Container that contains the binary files of type block.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*azureContainerManifestUri:* A valid URL including SAS token for accessing the Azure Blob Storage Container that contains the manifest. If write access is granted in the SAS token in this URI, then it will also be used for the log output. This can be the same URL as *azureContainerSourceUri*.

Type: CSOM String

*azureQueueReportUri:* A valid URL including SAS token for accessing the user-provided Azure Queue. If not null, and proper access is granted in the SAS token in this URI, it will be used for a real-time status update.

Type: CSOM String

CreatePreviewSPSite

**Return Type:** None

Schedules the creation of an evaluation copy of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) for the purposes of evaluating an upgrade of the site collection to a newer version.[<94>](#Appendix_A_94" \o "Product behavior note 94)

**Parameters:**

*upgrade:* If "true", the evaluation site collectionMUST be upgraded when it is created. If "false", the evaluation site collection MUST NOT be upgraded when it is created.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*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

DeleteMigrationJob

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Deletes the given migration job from the queue. Returns true if the migration job is found in the queue and successfully deleted. If the job is not found, false is returned.

**Parameters:**

*id:* The unique identifier of the migration job returned from the **CreateMigrationJob** (section [3.2.5.119.2.1.1](#Section_672a01a42d35438da2a8fe01953bceea)) method.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

ExtendUpgradeReminderDate

**Return Type:** None

Extend the upgrade reminder date for this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), so that [**site collection administrators**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) will not be reminded to run a site collection upgrade before the new date.[<95>](#Appendix_A_95" \o "Product behavior note 95)

**Parameters:** None

GetMigrationJobStatus

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

Queries the queue status for the specified migration job. It is an optional check after calling the **CreateMigrationJob** (section [3.2.5.119.2.1.1](#Section_672a01a42d35438da2a8fe01953bceea)) method. Once the migration job has completed, it will no longer show up in the queue and the log output SHOULD be checked for detailed status.

The migration job status is returned if the job is found in the queue. If unsuccessful, a value of None (0) is returned.

**Parameters:**

*id:* The unique identifier of the migration job returned from the **CreateMigrationJob** (section 3.2.5.119.2.1.1) method.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Invalidate

**Return Type:** None

Invalidates cached upgrade information about the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) so that this information will be recomputed the next time it is needed.[<96>](#Appendix_A_96" \o "Product behavior note 96)

**Parameters:** None

NeedsUpgradeByType

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Returns "true" if this site collection requires [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade of the specified type; otherwise, "false".[<97>](#Appendix_A_97" \o "Product behavior note 97)

**Parameters:**

*versionUpgrade:* If "true", version-to-version site collection upgrade is requested; otherwise "false" for build-to-build site collection upgrade.

Type: CSOM Boolean

*recursive:* If "true", child upgradable objects will be inspected; otherwise "false".

Type: CSOM Boolean

RunUpgradeSiteSession

**Return Type:** None

Either runs a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade, or schedules it to be run in the future, depending on available system resources and the value of the *queueOnly* parameter.[<98>](#Appendix_A_98" \o "Product behavior note 98)

The user executing this method MUST be a [**farm**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a) administrator or a [**site collection administrator**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4).

**Parameters:**

*versionUpgrade:* If "true", specifies that a version-to-version upgrade will be performed. If "false", specifies that a build-to-build upgrade will be performed.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*queueOnly:* If "true", specifies that the upgrade will not be run immediately; it will be queued for a later run.

Type: CSOM Boolean

*sendEmail:* If "true", a notification email will be sent to the requestor and the site collection administrators at the completion of the site collection upgrade. If "false", such notification will not be sent.

Type: CSOM Boolean

UpdateClientObjectModelUseRemoteAPIsPermissionSetting

**Return Type:** None

Sets whether the client-side object model (CSOM) requests that are made in the context of any [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) inside the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) require *UseRemoteAPIs* permission.

**Parameters:**

*requireUseRemoteAPIs:* Specifies whether the client-side object model (CSOM) requests that are made in the context of any site inside the site collection require *UseRemoteAPIs* permission.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

###### ObjectPath Methods

GetCatalog

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

Specifies the [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7), [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) gallery, [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) gallery, [**master page**](#gt_2bf32c58-c16c-42c6-8243-3cf627bc5637) gallery, or other galleries from the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), including custom galleries that are defined by users.

This method requires [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to the [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12) of the site collection, which is where the galleries are located.

**Parameters:**

*typeCatalog:* Specifies the type of list template for the gallery.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetChanges

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

Specifies the collection of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) changes from the [**change log**](#gt_bb8a8b33-35c9-41ec-b7bd-45f5cf124c4c) that have occurred within the scope of the site collection, based on the specified [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2).

**Parameters:**

*query:* Specifies the query to be used to build the collection of site collection changes to be returned.

Type: Microsoft.SharePoint.Client.ChangeQuery

GetCustomListTemplates

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

Specifies the collection of custom [**list templates**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) for a given [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*web:* Specifies the site that contains the custom list templates to be returned.

Type: Microsoft.SharePoint.Client.Web

OpenWeb

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

Opens a new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) by using the specified [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1).

**Parameters:**

*strUrl:* Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) or [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3) of the site to open. If **strUr**l is empty, the [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12) MUST be opened.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

OpenWebById

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

Returns the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) with the specified GUID.

**Parameters:**

*gWebId:* A GUID that specifies which site to return.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetWebTemplates

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

Returns the collection of [**site definitions**](#gt_15e1d3a4-757c-4fe2-9ba0-a20a8bb410fc) that are available for creating [**Web sites**](#gt_04b6a259-c555-4695-a236-57a32087deac) within the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).[<99>](#Appendix_A_99" \o "Product behavior note 99)

**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**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

*overrideCompatLevel:* Specifies the compatibility level of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to return from the site collection. If this value is 0, the compatibility level of the site is used.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

RunHealthCheck

**Return Type:** Microsoft.SharePoint.Client.SiteHealth.SiteHealthSummary

Runs a health check as follows.[<100>](#Appendix_A_100" \o "Product behavior note 100) (The health rules referenced below perform an implementation-dependent check on the health of a site collection.)

* If *ruleId* is not an empty GUID, runs the specified [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule and returns a summary of the results. If *ruleId* is an empty GUID, 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.
* 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 the value is an empty GUID, all rules are run, otherwise only the specified rule is run.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*bRepair:* Specifies whether repairable rules are to be run in repair mode.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*bRunAlways:* Specifies whether the rules will be run as a result of this call or cached results from a previous run can be returned.

Type: CSOM Boolean

GetMigrationStatus

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

Queries the queue status for all migration jobs. It is an optional check after calling the **CreateMigrationJob** (section [3.2.5.119.2.1.1](#Section_672a01a42d35438da2a8fe01953bceea)) method. Once the migration job has completed, it will no longer show up in the queue and the log output SHOULD be checked for detailed status.

The migration job status is returned if the job is found in the queue. If unsuccessful, a value of None (0) is returned.

**Parameters:** None

GetRecycleBinItems

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

Returns a collection of [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) within this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

**Parameters:**

*pagingInfo:* A string describing paging information for the next page of Recycle Bin items.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

MUST be formatted as a [**URL-encoded**](#gt_c2b5877a-c8a7-43c5-a540-c106114b8fdc) form body as described in [[HTML]](https://go.microsoft.com/fwlink/?LinkId=89880) section “17.13.4 - Form content types”. MUST contain the following [**key value pairs (KVP)**](#gt_b334e51c-02fa-407f-93d2-402ce53f3c0f).

| Key name | Description of [value](#gt_7bc13a0c-ca1a-4c78-b1bf-67e243f778bb) | Type of value |
| --- | --- | --- |
| id | The [**item identifier**](#gt_d67b771d-3de7-4425-b81f-ebe9f08ce5da) of the Recycle Bin item to display first on the next page of Recycle Bin items. | [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa) |
| title | The title of the Recycle Bin item to display first on the next page of Recycle Bin items. | CSOM String |
| searchValue | The value to search for in the [**column**](#gt_9fc0c6e3-3fd3-4cfd-bf45-7b5d3461f972) specified by the *orderBy* parameter. | CSOM String |

*rowLimit:* The maximum number of Recycle Bin items to retrieve.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*isAscending:* Specifies whether the Recycle Bin items are sorted in ascending order by the column specified in the *orderBy* parameter. A value of true indicates ascending order, and a value of false indicates descending order.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*orderBy:* The column to sort results by.

Type: Microsoft.SharePoint.Client.RecycleBinOrderBy

*itemState:* Specifies whether to retrieve items from the [**first-stage Recycle Bin**](#gt_970ee609-0ab2-458a-a2d1-b144afa187c5) or the [**second-stage Recycle Bin**](#gt_22bbbc9c-25bb-4f5b-957f-591572cba75e).

Type: Microsoft.SharePoint.Client.RecycleBinItemState

#### Microsoft.SharePoint.Client.SubwebQuery

**TypeId:** {E3A4D63C-876B-4E24-A972-7664437146FE}

**ShortName:** SP.SubwebQuery

Defines a query to specify which child [**Web sites**](#gt_04b6a259-c555-4695-a236-57a32087deac) to return from a Web site.

##### Properties

###### Scalar Properties

ConfigurationFilter

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

An integer that identifies the site template used to provision this site. The value defaults to -1, which means no configuration filter is used for the query. The value MUST NOT be less than -1.

WebTemplateFilter

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

An integer that identifies the template used in the site definition to define the base structure of this site. The value defaults to -1, which means no web template filter is used for the query. The value MUST NOT be less than -1.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.TemplateFileType

**ShortName:** SP.TemplateFileType

**Flag:** false

Specifies the type of ghosted file template to use

##### Field Values

###### StandardPage

**Value:** 0

A standard page uses the default view template. Value is 0.

###### WikiPage

**Value:** 1

A Wiki page uses the default Wiki template. Value is 1.

###### FormPage

**Value:** 2

A form page uses the default form template. Value is 2.

#### Microsoft.SharePoint.Client.UrlFieldFormatType

**ShortName:** SP.UrlFieldFormatType

**Flag:** false

Specifies the display format used for URL fields.

##### Field Values

###### Hyperlink

**Value:** 0

Represents a usual anchor tag.

###### Image

**Value:** 1

Represents an image that serves as a hyperlink.

#### Microsoft.SharePoint.Client.UsageInfo

**TypeId:** {7EC28504-35F9-4FCF-A09F-401024417292}

**ShortName:** SP.UsageInfo

##### Properties

###### Scalar Properties

Bandwidth

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the cumulative bandwidth, in bytes, used by the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) during an implementation-specific period.

Its value MUST be equal to or greater than 0.

DiscussionStorage

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the total amount of disk space, in bytes, currently being used to store [**Web discussion comments**](#gt_acf11c4e-e9d5-416c-a865-83e1025e0345) in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

Its value MUST be equal to or greater than 0.

Hits

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the cumulative number of requests for pages in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) during an implementation-specific period.

Its value MUST be equal to or greater than 0.

Storage

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the total amount of disk space, in bytes, currently being used by the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

Its value MUST be equal to or greater than 0.

StoragePercentageUsed

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read Only

Specifies the ratio of the amount of disk space currently being used by the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) to the maximum disk space specified in the [**site collection quota**](#gt_635e64ef-7e00-4c38-a903-6fd5c712ddc6).

The server 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.

Visits

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the cumulative number of requests for pages in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa), with no [**HTTP referer**](#gt_42c806e2-f669-41d1-b3e7-ec7afbad6a97), 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.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.User

**TypeId:** {AE70D2A4-EC46-4ED9-9B1E-9D0245754463}

**ShortName:** SP.User

Specifies a user.

##### Properties

###### Scalar Properties

Email

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) 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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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. |

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) identifier of the user. See **Microsoft.SharePoint.Client.Principal.Id**, as specified in section [3.2.5.100.1.1.1](#Section_d610909019344a37816cf19a0ec65578).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPException | The user [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) was not successfully initialized or the user could not be found. |

LoginName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) 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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) was not successfully initialized or the user could not be found. |

PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) represented by this [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

If the user is a domain [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac), this MUST be **PrincipalType.SecurityGroup**. Otherwise it MUST be **PrincipalType.User**.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) 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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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. |

IsSiteAdmin

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the user is the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) administrator for this site collection.[<101>](#Appendix_A_101" \o "Product behavior note 101)

IsHiddenInUI

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Principal.IsHiddenInUI**, as specified in section [3.2.5.100.1.1.5](#Section_c468fb79ada34fafb72c0d963ba94dec).[<102>](#Appendix_A_102" \o "Product behavior note 102)

UserId

**Type:** Microsoft.SharePoint.Client.UserIdInfo

**Accessibility:** Read Only

Gets identity provider's unique identifier information about the user.

The property returns null if identity provider's unique identifier cannot be constructed.

IsShareByEmailGuestUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets a value indicating whether this User is a share by email guest user.

If this instance is a share by email guest user, it's true; otherwise, false.

###### ObjectPath Properties

Groups

**Type:** Microsoft.SharePoint.Client.GroupCollection

**Accessibility:** Read Only

Gets the [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that this **User** (section [3.2.5.124](#Section_9bbe5244e5604c3fb739f7bf9b3359b7)) is a member of.[<103>](#Appendix_A_103" \o "Product behavior note 103)

##### Methods

###### Scalar Methods

Update

**Return Type:** None

Updates the user with changes that have been made to the user properties.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.UserCollection

**TypeId:** {E090781E-8899-4672-9B3D-A78F49FAD19D}

**ShortName:** SP.UserCollection

Represents a collection of user [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

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.

RemoveById

**Return Type:** None

Removes the user with the specified member identifier from the collection.[<104>](#Appendix_A_104" \o "Product behavior note 104)

**Parameters:**

*id:* Specifies the member identifier.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

RemoveByLoginName

**Return Type:** None

Removes the user with the specified user name from the collection.[<105>](#Appendix_A_105" \o "Product behavior note 105)

**Parameters:**

*loginName:* A string that contains the user name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a) administrators [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) and the specified user is not a computer administrator. |

AddUser

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

Adds the user specified by the user parameter to the collection and returns a [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) 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**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a) administrators [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) and the specified user is not a computer administrator. |

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

GetById

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

Returns the user with the specified [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) identifier.

**Parameters:**

*id:* Specifies the member identifier.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetByLoginName

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

Returns the user with the specified login name.

**Parameters:**

*loginName:* A string that contains the [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) of the user.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 251.

#### Microsoft.SharePoint.Client.UserCreationInformation

**TypeId:** {6ECD8AF6-BED3-4A74-BE76-1EC981B350E1}

**ShortName:** SP.UserCreationInformation

Parameters to invite a user.

##### Properties

###### Scalar Properties

Email

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the e-mail address for the user to be created.

Its length MUST be equal to or less than 255.

LoginName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**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.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the display name for the user to be created.

Its length MUST be equal to or less than 255.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.UserCustomAction

**TypeId:** {232F8709-5DFD-44CF-A35B-7D8538C9336E}

**ShortName:** SP.UserCustomAction

Specifies a [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

##### Properties

###### Scalar Properties

CommandUIExtension

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies an implementation-specific [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that determines user interface properties of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

It MUST be an XML fragment.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description for the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies an implementation-specific value that determines the position of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) on the page.

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

ImageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the icon of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

It MUST be NULL, a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b), or an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85).

Location

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies an implementation-specific value that determines which pages display the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

RegistrationId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the identifier of the [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) associated with the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e). It MUST be a [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) or [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) if **RegistrationType** is **Microsoft.SharePoint.Client.UserCustomActionRegistrationType.List**. It MUST be a [**content type identifier**](#gt_b9e86552-0bd2-49f2-acea-a94af2842587) if **RegistrationType** is **Microsoft.SharePoint.Client.UserCustomActionRegistrationType.ContentType**. It MUST be a [**ProgID**](#gt_06b2ae3d-4106-49f3-9ca0-e2bcd649e75a) if **RegistrationType** is **Microsoft.SharePoint.Client.UserCustomActionRegistrationType.ProgId**. It MUST be a [**file extension**](#gt_fa1a2180-b45c-4d43-bae7-76ee9fe9de03) if **RegistrationType** is **Microsoft.SharePoint.Client.UserCustomActionRegistrationType.FileType**.

RegistrationType

**Type:** Microsoft.SharePoint.Client.UserCustomActionRegistrationType

**Accessibility:** Read/Write

Specifies the type of [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) associated with the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e). It MUST be a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) if the **RegistrationId** is a [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) or [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7). It MUST be **ContentType** if the **RegistrationId** is a [**content type identifier**](#gt_b9e86552-0bd2-49f2-acea-a94af2842587). It MUST be ProgID if the **RegistrationId** is a [**ProgID**](#gt_06b2ae3d-4106-49f3-9ca0-e2bcd649e75a). It MUST be FileType if the **RegistrationId** is a [**file extension**](#gt_fa1a2180-b45c-4d43-bae7-76ee9fe9de03).

Rights

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read/Write

Specifies the [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) needed for the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

It MUST NOT be NULL.

Scope

**Type:** Microsoft.SharePoint.Client.UserCustomActionScope

**Accessibility:** Read Only

Specifies the scope of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

ScriptBlock

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655) script to be executed when the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is performed. It MUST be NULL if *Location* is not "ScriptLink".

ScriptSrc

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) of a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) that contains the [[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655) script to execute on the page. It MUST be NULL if *Location* is not "ScriptLink".

It MUST be NULL, or a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b).

Sequence

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies an implementation-specific value that determines the order of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) 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.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) for the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) to navigate to when the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is called.

It MUST be NULL or a URI. If it is a URL, is MUST be a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b).

VersionOfUserCustomAction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies an implementation-specific version identifier.

It MUST NOT be NULL.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575305 | Microsoft.SharePoint.SPException | Custom action was modified on the server in a way that prevents changes from being committed, as determined by the protocol server. |

Update

**Return Type:** None

Commits changed properties of [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575305 | Microsoft.SharePoint.SPException | Custom action was modified on the server in a way that prevents changes from being committed, as determined by the protocol server. |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.UserCustomActionCollection

**TypeId:** {70D1CB2D-D304-4D96-9B54-74B3F400FA28}

**ShortName:** SP.UserCustomActionCollection

Specifies a collection of [**custom actions**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Clear

**Return Type:** None

Deletes all [**custom actions**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) in the collection.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575305 | Microsoft.SharePoint.SPException | Custom action was modified on the server in a way that prevents changes from being committed, as determined by the protocol server. |

###### ObjectPath Methods

Add

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

Adds a [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) to the collection.

**Parameters:** None

GetById

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

Returns the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) with the specified identifier. It MUST return NULL if no custom action corresponds to the specified identifier.

**Parameters:**

*id:* Specifies the identifier of the custom action.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### Microsoft.SharePoint.Client.UserCustomActionRegistrationType

**ShortName:** SP.UserCustomActionRegistrationType

**Flag:** false

Specifies the type of [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) associated with the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

##### Field Values

###### None

**Value:** 0

Specifies that the [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) association is not specified.

###### List

**Value:** 1

Specifies that the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is associated with a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### ContentType

**Value:** 2

Specifies that the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is associated with a [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d).

###### ProgId

**Value:** 3

Specifies that the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is associated with a [**ProgID**](#gt_06b2ae3d-4106-49f3-9ca0-e2bcd649e75a).

###### FileType

**Value:** 4

Specifies that the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is associated with a [**file extension**](#gt_fa1a2180-b45c-4d43-bae7-76ee9fe9de03).

#### Microsoft.SharePoint.Client.UserCustomActionScope

**ShortName:** SP.UserCustomActionScope

**Flag:** false

Specifies the scope of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e).

##### Field Values

###### Unknown

**Value:** 0

Specifies that the scope of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is not specified.

###### Site

**Value:** 2

Specifies that the scope of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is limited to a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

###### Web

**Value:** 3

Specifies that the scope of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is limited to a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### List

**Value:** 4

Specifies that the scope of the [**custom action**](#gt_46c4ea99-e70a-44bd-985a-f65b0048e78e) is limited to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

#### Microsoft.SharePoint.Client.Utilities.DateTimeFormat

**ShortName:** SP.Utilities.DateTimeFormat

**Flag:** false

Specifies the date and time format.

##### Field Values

###### DateTime

**Value:** 0

Specifies that both date and time are included.

###### DateOnly

**Value:** 1

Specifies that only the date is included.

###### TimeOnly

**Value:** 2

Specifies that only time is included.

###### ISO8601

**Value:** 3

Specifies that the format is [[ISO-8601]](https://go.microsoft.com/fwlink/?LinkId=89920) time format YYYY-MM-DDTHH:MM:SSZ.

###### MonthDayOnly

**Value:** 4

Specifies that only the month and day are included.

###### MonthYearOnly

**Value:** 5

Specifies that only the month and year are included.

###### LongDate

**Value:** 6

Specifies that the date is in long format including the day of week, day, month and year.[<106>](#Appendix_A_106" \o "Product behavior note 106)

###### UnknownFormat

**Value:** 7

Specifies that the date parsing code SHOULD ignore the format mask when attempting to parse the given date.[<107>](#Appendix_A_107" \o "Product behavior note 107)

#### Microsoft.SharePoint.Client.Utilities.IconSize

**ShortName:** SP.Utilities.IconSize

**Flag:** false

Enumeration used to specify the icon size requested for the **MapToIcon** method in the Microsoft.SharePoint.SPWeb class.

##### Field Values

###### Size16

**Value:** 0

Specifies an icon size of 16 x 16 pixels.

###### Size32

**Value:** 1

Specifies an icon size of 32 x 32 pixels.

###### Size256

**Value:** 2

Specifies an icon size of 256 x 256 pixels.

#### Microsoft.SharePoint.Client.Utilities.PrincipalInfo

**TypeId:** {C88E4D2E-768D-4065-9DA4-D2880E08733E}

**ShortName:** SP.Utilities.PrincipalInfo

Provides access to information about a [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

##### Properties

###### Scalar Properties

Department

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the department name of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

Email

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

JobTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the job title of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

LoginName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

Mobile

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the number of a [**mobile device**](#gt_b2dcde72-7fbf-401e-be58-056b2f7e84b0) of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

PrincipalId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies an identifier for the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0). It MUST be -1 if the principal does not belong to the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read Only

Specifies the type of [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

It MUST NOT be a combination of more than one [**member**](#gt_5d78ca78-a9b1-4791-8126-bf9494304b11) of the **PrincipalType** enumeration. It MUST NOT be PrincipalType.All.

SIPAddress

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**Session Initiation Protocol (SIP)**](#gt_586971aa-3b65-4de3-be93-1a9756777d89) address of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.Utilities.PrincipalSource

**ShortName:** SP.Utilities.PrincipalSource

**Flag:** true

Specifies the source of a principal.

##### Field Values

###### None

**Value:** 0

Do not specify a principal source.

###### UserInfoList

**Value:** 1

Use the user information list as the source.

###### Windows

**Value:** 2

Use Windows as the source.

###### MembershipProvider

**Value:** 4

Use the current membership provider as the source.

###### RoleProvider

**Value:** 8

Use the current role provider as the source

###### All

**Value:** 15

Use all principal sources.

#### Microsoft.SharePoint.Client.Utilities.PrincipalType

**ShortName:** SP.Utilities.PrincipalType

**Flag:** true

Specifies the type of a principal.

##### Field Values

###### None

**Value:** 0

Do not specify a principal type.

###### User

**Value:** 1

A user principal type.

###### DistributionList

**Value:** 2

A distribution list principal type.

###### SecurityGroup

**Value:** 4

A security group principal type.

###### SharePointGroup

**Value:** 8

A SharePoint group principal type.

###### All

**Value:** 15

All principal types.

#### 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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), and for various other [**tasks**](#gt_740b149e-e6b4-49f5-bc16-e03ff41def7f) in managing deployment. All methods in SP.Utilities.Utility are static.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

CreateEmailBodyForInvitation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Creates the contents of the e-mail message used to invite users to a [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) or resource in a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*pageAddress:* Specifies part of the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) for the document or resource.

Type: CSOM String

FormatDateTime

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns a string representation of a **DateTime** value based on the [**regional settings**](#gt_ede60f7f-1131-4845-800b-b6848215e015) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) and [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76).

**Parameters:**

*web:* Specifies the site to be used when formatting the value.

Type: Microsoft.SharePoint.Client.Web

*datetime:* Specifies the value to be formatted.

Type: [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

*format:* Specifies the date and time format of the result.

Type: Microsoft.SharePoint.Client.Utilities.DateTimeFormat

GetCurrentUserEmailAddresses

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the email addresses of the current user. If more than one email address exists for the current user, returns a list of email addresses separated by semicolons.

**Parameters:** None

ResolvePrincipal

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Client.Utilities.PrincipalInfo

Returns information about a [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) that matches the specified search criteria. If no matches are found, the protocol server MUST return NULL.

**Parameters:**

*web:* Specifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

*input:* Specifies the value to be used when searching for a principal.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If this is not the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700), [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6), or [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) of a principal, the server 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.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalType

*sources:* Specifies the source to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalSource

*usersContainer:* Specifies the collection of users to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.UserCollection

*inputIsEmailOnly:* Specifies whether only the e-mail address is used when searching for a principal.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024891 | System.UnauthorizedAccessException | The [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) has insufficient permissions. |

SearchPrincipals

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Utilities.PrincipalInfo

Returns the collection of [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) that partially or uniquely match the specified search criteria.

**Parameters:**

*web:* Specifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

*input:* Specifies the value to be used when searching for a principal.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If this is not the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700), [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6), or [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) of a principal, the server 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.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalType

*sources:* Specifies the source to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalSource

*usersContainer:* Specifies the collection of users to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.UserCollection

*maxCount:* Specifies the maximum number of principals to be returned in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

If the value is equal to or less than 0, the server MUST return an empty collection.

GetPeoplePickerURL

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) to a Web page used to search for [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).[<108>](#Appendix_A_108" \o "Product behavior note 108)

**Parameters:**

*web:* Specifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to be used when searching for principals.

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

*fieldUser:* Specifies the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) to be used to set query parameters when searching for principals

Type: Microsoft.SharePoint.Client.FieldUser

It MUST NOT be NULL.

ResolvePrincipalInCurrentContext

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Client.Utilities.PrincipalInfo

Returns information about a [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) that matches the specified search criteria in the context of the current [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac).[<109>](#Appendix_A_109" \o "Product behavior note 109)

**Parameters:**

*input:* Specifies the value to be used when searching for a principal.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If this is not the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700), [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6), or [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) of a principal, the server 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.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalType

*sources:* Specifies the source to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalSource

*inputIsEmailOnly:* Specifies whether only the e-mail address is used when searching for a principal.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*addToUserInfoList:* Specifies whether to add the principal to the [**user information list**](#gt_871c55fa-c4b9-4df2-a7a0-0b9082ad61c9).

Type: CSOM Boolean

*matchUserInfoList:* Specifies whether to return the principal found in the user information list.

Type: CSOM Boolean

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024891 | System.UnauthorizedAccessException | The [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) has insufficient permissions. |

MarkDiscussionAsFeatured

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Marks the specified [**discussion items**](#gt_19bfd7b3-2bdd-49d8-bfe6-b428cd581f10) as featured discussion items.[<110>](#Appendix_A_110" \o "Product behavior note 110)

**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**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) 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 *topicIDs* is invalid. |

**Parameters:**

*listID:* Identifies the [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67) which contains the discussion items to be marked as featured discussion items.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*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 ",".

UnmarkDiscussionAsFeatured

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Unmarks the specified [**discussion items**](#gt_19bfd7b3-2bdd-49d8-bfe6-b428cd581f10) as featured discussion items.[<111>](#Appendix_A_111" \o "Product behavior note 111)

**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**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) 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 *topicIDs* is invalid. |

**Parameters:**

*listID:* Identifies the [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67) which contains the discussion items to be unmarked as featured discussion items.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*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 ",".

SendEmail

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Sends the e-mail message to the specified address.[<112>](#Appendix_A_112" \o "Product behavior note 112)

**Parameters:**

*properties:* The set of properties that define the email to send.

Type: Microsoft.SharePoint.Client.Utilities.EmailProperties

LogCustomAppError

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Client.Utilities.LogAppErrorResult

Logs an error from a [**SharePoint Add-in**](#gt_1a171365-2d99-48d4-a536-f8e534620f2c).[<113>](#Appendix_A_113" \o "Product behavior note 113) The return value indicates the success or failure of this operation.

These errors are of interest to administrators who monitor such [**apps (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

**Parameters:**

*error:* Error string to log.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.ArgumentException | The *error* parameter is NULL or empty. |
| -2147024891 | System.UnauthorizedAccessException | The [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac) in the current request context does not represent a site for the app (2) which matches the app (2) identity in the current request. |

GetAppLicenseInformation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Gets the collection of the [**marketplace license**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc)s entitling the user to use the specified [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79) within the [**site subscription**](#gt_74f30286-0bd6-4689-b5f9-9cc2b1d49ac3) including the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<114>](#Appendix_A_114" \o "Product behavior note 114)

The [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac) in the current request context MUST represent a site for the app (2) that is identified by the *productId* parameter or the app (2) identity in the current request MUST match the app (2) identity of the app (2) that is identified by the *productId* parameter.

**Parameters:**

*productId:* [**App product identifier**](#gt_e303d1e8-3edc-496c-90da-aa07ca17da3f) of the specified app (2).

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

IsUserLicensedForEntityInContext

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether the currently logged-in user has the appropriate license to access the specified entity.[<115>](#Appendix_A_115" \o "Product behavior note 115)

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetAppLicenseDeploymentId

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Returns the [**marketplace deployment identifier**](#gt_46b7d8e2-c3b7-4d6f-b1fd-880d42ab2bc3) associated with [**site subscription**](#gt_74f30286-0bd6-4689-b5f9-9cc2b1d49ac3) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). If there is no marketplace deployment identifier associated with the site subscription of the site, it randomly generates one and associates it with the site subscription of the site.[<116>](#Appendix_A_116" \o "Product behavior note 116) This method MUST be called by a [**site collection administrator**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) including the current site.

**Parameters:** None

ImportAppLicense

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Imports the given [**marketplace license**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc), along with the associated [**SharePoint Add-in**](#gt_1a171365-2d99-48d4-a536-f8e534620f2c) information, to the [**site subscription**](#gt_74f30286-0bd6-4689-b5f9-9cc2b1d49ac3) associated with the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<117>](#Appendix_A_117" \o "Product behavior note 117) This method MUST be called by a [**site collection administrator**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) including the current site.

**Parameters:**

*licenseTokenToImport:* The [**marketplace license token**](#gt_8be722ef-f913-4a2f-8de7-c9278fd8ed55) associated with the marketplace license.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If the marketplace license is a test license, this token could be missing the [**marketplace deployment identifier**](#gt_46b7d8e2-c3b7-4d6f-b1fd-880d42ab2bc3). Otherwise, the token MUST have a marketplace deployment identifier matching the marketplace deployment identifier associated with the site subscription of the site. If the marketplace license is not a test license, then this token MUST be verified by the marketplace for authenticity for the method to import the marketplace license.

This MUST NOT be NULL. This MUST NOT be empty string.

*contentMarket:* The [**marketplace content market**](#gt_ba1d1763-a584-4419-affd-059f8c39caae) of the marketplace license to be imported.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty string. The format of the string MUST be as described in [[RFC4646]](https://go.microsoft.com/fwlink/?LinkId=123591) section 2.1.

*billingMarket:* The [**marketplace billing market**](#gt_6f206417-563c-4e0b-920b-1f37dac9ae63) of the marketplace license to be imported.

Type: CSOM String

It MUST NOT be NULL. It MUST NOT be empty string. The string MUST take one of the values defined in [[ISO-3166]](https://go.microsoft.com/fwlink/?LinkId=89917).

*appName:* The title of the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

Type: CSOM String

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

*iconUrl:* The location of the icon image of the app (2).

Type: CSOM String

If it is not NULL, it MUST be a URL of absolute form.

*providerName:* The name of the publisher of the app (2).

Type: CSOM String

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

*appSubtype:* The subtype of the app (2).

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

SearchPrincipalsUsingContextWeb

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Utilities.PrincipalInfo

Returns the collection of [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) that partially or uniquely matches the specified search criteria in the context of the current [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac).[<118>](#Appendix_A_118" \o "Product behavior note 118)

**Parameters:**

*input:* Specifies the value to be used when searching for a principal.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

If this is not the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700), [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6), or [**login name**](#gt_ef067156-b998-4f25-9e41-43d88843535b) of a principal, the server 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.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalType

*sources:* Specifies the source to be used when searching for a principal.

Type: Microsoft.SharePoint.Client.Utilities.PrincipalSource

*groupName:* Specifies the name of a [**site collection group**](#gt_ba608ab3-e80a-48ff-b178-34891301fc23) in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that contains the current Web site. The collection of users in this site collection group is used when searching for a principal.

Type: CSOM String

*maxCount:* Specifies the maximum number of principals to be returned.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

If the value is equal to or less than 0, the server MUST return an empty collection.

GetLocalizedString

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Retrieves the value for a named resource string from the resource file for a specified language. If a value cannot be found in the requested language, the value for the invariant language is returned. If a resource file for the invariant language does not exist or the specified resource name does not exist, the source string is returned without localization.

**Parameters:**

*source:* Specifies the resource in the form $Resources:key, where key is the name half of a name/value pair in a resource file.

Type: CSOM String

*defaultResourceFile:* Specifies the base file name of the language resource file containing a localized string value. For example, if there are a series of resource files named myresources.en-us.resx, myresources.es-es.resx, myresources.de-de.resx, and so on, the value to pass in this parameter is myresources.

Type: CSOM String

*language:* Specifies the LCID of the target language. The value MUST be a valid [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6).

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetLowerCaseString

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the lower case value of a CSOM String using the supplied locale.

**Parameters:**

*sourceValue:* Value to convert to lower case.

Type: CSOM String

*lcid:* Locale ID to be used when converting to lower case.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

LogCustomRemoteAppError

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Client.Utilities.LogAppErrorResult

Logs an error from a [**SharePoint Add-in**](#gt_1a171365-2d99-48d4-a536-f8e534620f2c).[<119>](#Appendix_A_119" \o "Product behavior note 119) The return value indicates the success or failure of this operation.

These errors are of interest to administrators who monitor such [**apps (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

**Parameters:**

*productId:* The [**app product identifier**](#gt_e303d1e8-3edc-496c-90da-aa07ca17da3f) of the [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2).

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

It MUST NOT be an empty GUID.

*error:* Error string to log.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.ArgumentException | Thrown when the *error* parameter is null or empty or the *productId* parameter is empty. |
| -2147024891 | System.UnauthorizedAccessException | Thrown if there is no valid app (2) context. |

ExpandGroupsToPrincipals

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Utilities.PrincipalInfo

Expands [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) to a collection of [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

**Parameters:**

*inputs:* A collection of groups to be expanded.

Type: CSOM array of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*maxCount:* Specifies the maximum number of principals to be returned.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetUserPermissionLevels

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Retrieves a collection of permission levels of the current user on the web.

**Parameters:** None

IsEmailServerSet

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Returns a Boolean value that specifies whether an e-mail server has been set for the site.

**Parameters:**

*web:* A Microsoft.SharePoint.SPWeb object that represents the site.

Type: Microsoft.SharePoint.Client.Web

###### ObjectPath Methods

CreateNewDiscussion

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Creates a new top-level [**discussion item**](#gt_19bfd7b3-2bdd-49d8-bfe6-b428cd581f10) for a [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67) and returns the corresponding [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

**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)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) of the new discussion item.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

CreateNewDiscussionReply

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Creates a new [**discussion item**](#gt_19bfd7b3-2bdd-49d8-bfe6-b428cd581f10) representing a reply to an existing discussion item in a [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67) and returns the corresponding [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) as specified by **ListItem** (section [3.2.5.87](#Section_4a06e0a3275247b292f6970b437d1e17)).

**Parameters:**

*parent:* Specifies the parent discussion item of the new discussion item.

Type: Microsoft.SharePoint.Client.ListItem

CreateNewDiscussionItem

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Takes a **ListItem** (section [3.2.5.87](#Section_4a06e0a3275247b292f6970b437d1e17)) that is created in a [**discussion board**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67) and sets [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and other internal states in such a way that when the **Update** method is called on the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3), a [**discussion item**](#gt_19bfd7b3-2bdd-49d8-bfe6-b428cd581f10) that properly contains replies is created.[<120>](#Appendix_A_120" \o "Product behavior note 120)

**Parameters:**

*listId:* The list item identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*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**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

CreateWikiPageInContextWeb

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Creates a wiki page.[<121>](#Appendix_A_121" \o "Product behavior note 121)

**Parameters:**

*parameters:* The information used to create the wiki page.

Type: Microsoft.SharePoint.Client.Utilities.WikiPageCreationInformation

It MUST NOT be NULL.

LocalizeWebPartGallery

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.ListItem

Localizes [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7) for the specified collection of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

**Parameters:**

*items:* A collection of list items for a Web Part gallery.

Type: Microsoft.SharePoint.Client.ListItemCollection

It MUST NOT be NULL.

#### Microsoft.SharePoint.Client.View

**TypeId:** {2399F45D-1784-4965-9A5F-A3415790A0D0}

**ShortName:** SP.View

Specifies a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

##### Properties

###### Scalar Properties

Aggregations

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and functions that define totals shown in a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the following [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067):  
  
<xs:sequence><xs:element name="FieldRef" type="FieldRefDefinitionAggregation" minOccurs="0" maxOccurs="unbounded" /></xs:sequence>  
  
where **FieldRefDefinitionAggregation** is specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.2.

AggregationsStatus

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether totals are shown in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL If *Aggregations* is NULL; otherwise it MUST be "On" or "Off".

BaseViewId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**base view identifier**](#gt_1cfdaf39-cc42-4e7d-b5ce-ca5a2e7bbde7) of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

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.

ContentTypeId

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

**Accessibility:** Read/Write

Specifies the identifier of the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) with which the [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) is associated.

DefaultView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is the [**default list view**](#gt_34155556-154f-4bf8-b821-0420d4f28a63).

DefaultViewForContentType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is the [**default list view**](#gt_34155556-154f-4bf8-b821-0420d4f28a63) for the [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) specified by *ContentTypeId*.

EditorModified

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) was modified in an editor.

Formats

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the column and row formatting for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to **ViewFormatDefinitions** as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.21.

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is [**hidden**](#gt_6928fba3-3deb-453c-82ed-ecac33026ffd).

HtmlSchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882) that represents the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST NOT be NULL. It MUST be exactly one [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) conforming to **ViewDefinitions** as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.16.

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**view identifier**](#gt_0f54c5e5-d938-4215-809b-d8bbdc47ce2e) of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST NOT be an empty GUID.

ImageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the image for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) or an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85).

IncludeRootFolder

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the current [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) is displayed in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

Method

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the view method for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or an [**XML document**](#gt_8fa90ece-7a01-4c00-af85-adbf0ed01882) where the [**root element**](#gt_95422012-9f75-49c9-b80c-e190eee929d3) is a valid Method [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) as specified in [[MS-WSSCAP]](%5bMS-WSSCAP%5d.pdf#Section_1076b2de28354fe18d4cc078a9703fab) section 2.2.5.2.

MobileDefaultView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is the [**default mobile list view**](#gt_ba75ce28-11ad-4b84-a32e-2e9e9889f8be).

MobileView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is a [**mobile list view**](#gt_24f19a66-9634-4a7c-bdc4-d0c88c0db2ae).

ModerationType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the content approval type for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be one of the following: NULL, "", "Moderator", "Contributor", or "HideUnapproved".

OrderedView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) can be reordered in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

Paged

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is a [**paged view**](#gt_b0f18f0f-d2ca-422a-819c-e599dc7ac287).

PersonalView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is a [**personal view**](#gt_c963456c-6db6-4d30-93e4-3c49db5376e2). If the value is "false", the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) view is a [**public view**](#gt_3f8f116e-7112-4fb2-b8ad-c920aa61205a).

ReadOnlyView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is read-only.

RequiresClientIntegration

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) requires client integration [**rights**](#gt_893f71c9-f98e-4328-8662-9eb65467adca).

RowLimit

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read/Write

Specifies the maximum number of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) to display in a visual page of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

Its value MUST be equal to or less than 2147483647.

Scope

**Type:** Microsoft.SharePoint.Client.ViewScope

**Accessibility:** Read/Write

Specifies the scope for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**list view page**](#gt_5c12e939-d65b-46c2-80c5-571d7edf83d5).

It MUST NOT be NULL. It MUST NOT be empty. It MUST be a URL of server-relative form.

StyleId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the identifier of the [**view style**](#gt_df83d66c-3f4b-4869-ae81-f8f50cbec5fb) for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or conform to **ViewStyleReference** as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.20.

Threaded

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is a threaded view.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

Toolbar

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**toolbar**](#gt_c57c58f2-a71c-4dc0-ae75-471d52b62f13) for the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or conform to the following [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067):  
  
<xs:complexType><xs:sequence><xs:any minOccurs="0" maxOccurs="unbounded" namespace="##any" processContents="skip"/></xs:sequence><xs:anyAttribute processContents="skip"/></xs:complexType>

ToolbarTemplateName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the template for the [**toolbar**](#gt_c57c58f2-a71c-4dc0-ae75-471d52b62f13) that is used in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71), specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.17.2.

ViewData

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) 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**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the following [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067):  
  
<xs:sequence><xs:element name="FieldRef" type="FieldRefDefinitionViewData" minOccurs="3" maxOccurs="5"/></xs:sequence>  
  
where **FieldRefDefinitionViewData** is specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.18.

ViewJoins

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the joins that are used in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or an XML fragment that conforms to **ListJoinsDefinition** as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.2.2.21.

ViewProjectedFields

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**dependent lookup field**](#gt_38691822-fbf7-48d3-bc51-cabb4bf8b79a) to be used by the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to **ProjectedFieldsDefinition** as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.2.2.19.

ViewQuery

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2) that is used by the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or a valid [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to **CamlQueryRoot** as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.2.2.1.

ViewType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the type of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be one of the following: "HTML", "GRID", "CALENDAR", "RECURRENCE", "CHART", or "GANTT".

ListViewXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the **View** (section [3.2.5.137](#Section_6be977215f6340408e4786ab943cf266)) [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that conforms to the **ViewDefinition** type as defined in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.17.[<122>](#Appendix_A_122" \o "Product behavior note 122)

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any logic for this [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

###### ObjectPath Properties

ViewFields

**Type:** Microsoft.SharePoint.Client.ViewFieldCollection

**Accessibility:** Read Only

Specifies the collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130575320 | Microsoft.SharePoint.SPException | List view does not exist. |

RenderAsHtml

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) as [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf). It MUST be HTML.

**Parameters:** None

Update

**Return Type:** None

Commits changed properties of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | List view does not exist. |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ViewCollection

**TypeId:** {03C5D7A9-9541-4482-9919-CA0CCCF565A0}

**ShortName:** SP.ViewCollection

Specifies a collection of [**list views**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Adds a new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf). |

GetById

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

Returns the view with the specified [**view identifier**](#gt_0f54c5e5-d938-4215-809b-d8bbdc47ce2e).

**Parameters:**

*guidId:* The view identifier of the view to return.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetByTitle

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

Returns the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) with the specified title. If there is more than one list view with the specified title, the server MUST return one list view as determined by the server.

**Parameters:**

*strTitle:* The title of the view to return.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

#### Microsoft.SharePoint.Client.ViewCreationInformation

**TypeId:** {A3547807-7266-42F3-B055-AFA6E840E458}

**ShortName:** SP.ViewCreationInformation

Specifies the properties used to create a new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

##### Properties

###### Scalar Properties

Paged

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is a [**paged view**](#gt_b0f18f0f-d2ca-422a-819c-e599dc7ac287).

PersonalView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is a [**personal view**](#gt_c963456c-6db6-4d30-93e4-3c49db5376e2). If the value is "false", the new list view is a [**public view**](#gt_3f8f116e-7112-4fb2-b8ad-c920aa61205a).

Query

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2) for the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

It MUST be NULL or a valid [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to **CamlQueryRoot** as specified in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.2.2.1.

RowLimit

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read/Write

Specifies the maximum number of [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) that the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) displays on a visual page of the list view.

Its value MUST be equal to or less than 2147483647.

SetAsDefaultView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is the [**default list view**](#gt_34155556-154f-4bf8-b821-0420d4f28a63).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

Its length MUST be equal to or less than 255.

ViewFields

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the collection of [**field internal names**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) for the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

ViewTypeKind

**Type:** Microsoft.SharePoint.Client.ViewType

**Accessibility:** Read/Write

Specifies the type of the new [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ViewFieldCollection

**TypeId:** {AF975F76-8A94-4E6D-8325-BD1E20B7C301}

**ShortName:** SP.ViewFieldCollection

Specifies the collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

##### Properties

###### Scalar Properties

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) that represents the collection.

It MUST NOT be NULL. It MUST be an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) 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]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6) section 2.3.2.19.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Add

**Return Type:** None

Adds the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) with the specified [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) or [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) to the collection.

**Parameters:**

*strField:* Specifies the field internal name or the display name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

MoveFieldTo

**Return Type:** None

Moves the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) with the specified [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) to the specified position in the collection.

**Parameters:**

*field:* Specifies the field internal name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

*index:* Specifies the position for the field (2). The first position is 0.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

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. |

Remove

**Return Type:** None

Removes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) with the specified [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) from the collection.

**Parameters:**

*strField:* Specifies the field internal name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

RemoveAll

**Return Type:** None

Removes all the [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the collection.

**Parameters:** None

AddViewField

**Return Type:** None

Adds the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) with the specified [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) or display name to the collection.[<123>](#Appendix_A_123" \o "Product behavior note 123)

**Parameters:**

*strField:* Specifies the field internal name or display name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

MoveViewFieldTo

**Return Type:** None

Moves the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) with the specified [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) to the specified position in the collection.[<124>](#Appendix_A_124" \o "Product behavior note 124)

**Parameters:**

*field:* Specifies the field internal name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

*index:* Specifies the new position for the field (2). The first position is 0.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Its value MUST be equal to or greater than 0.

RemoveAllViewFields

**Return Type:** None

Removes all the [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the collection.[<125>](#Appendix_A_125" \o "Product behavior note 125)

**Parameters:** None

RemoveViewField

**Return Type:** None

Removes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) with the specified [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) or display name from the collection.[<126>](#Appendix_A_126" \o "Product behavior note 126)

**Parameters:**

*strField:* Specifies the field internal name or display name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2146232832 | Microsoft.SharePoint.SPException | Field (2) does not exist in the collection. |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ViewScope

**ShortName:** SP.ViewScope

**Flag:** false

Specifies the scope for returning [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) and [**list folders**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) in a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

##### Field Values

###### DefaultValue

**Value:** 0

Specifies that all [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) and all [**list folders**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) in the current list folder are returned in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

###### Recursive

**Value:** 1

Specifies that all [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) are returned in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

###### RecursiveAll

**Value:** 2

Specifies that all [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) and all [**list folders**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) in the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) are returned in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

###### FilesOnly

**Value:** 3

Specifies that all [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) in the current [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) are returned in the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

#### Microsoft.SharePoint.Client.ViewType

**ShortName:** SP.ViewType

**Flag:** false

Specifies the type of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71).

##### Field Values

###### None

**Value:** 0

The type of the [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) is not specified.

###### Html

**Value:** 1

Specifies an [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) type.

###### Grid

**Value:** 2048

Specifies a [**datasheet**](#gt_044a2880-814e-4b2f-b3eb-e5d78d499896) [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) type.

###### Calendar

**Value:** 524288

Specifies a calendar [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) type.

###### Recurrence

**Value:** 8193

Specifies a [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) type that displays recurring events.

###### Chart

**Value:** 131072

Specifies a chart [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) type.

###### Gantt

**Value:** 67108864

Specifies a Gantt chart [**list view**](#gt_1b49f76a-a3f7-4c2b-935e-2f764eafec71) type.

#### Microsoft.SharePoint.Client.Web

**TypeId:** {A489ADD2-5D3A-4DE8-9445-49259462DCEB}

**ShortName:** SP.Web

Specifies a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

The AllowCreateDeclarativeWorkflowForCurrentUser, AllowDesignerForCurrentUser, AllowMasterPageEditingForCurrentUser, AllowRevertFromTemplateForCurrentUser, AllowSaveDeclarativeWorkflowAsTemplateForCurrentUser, AllowSavePublishDeclarativeWorkflowForCurrentUser, ContainsConfidentialInfo, DesignerDownloadUrlForCurrentUser, EffectiveBasePermissions, HasUniqueRoleAssignments, MembersCanShare, RequestAccessEmail, SaveSiteAsTemplateEnabled, ShowUrlStructureForCurrentUser, SupportedUILanguageIds, ThemeData and ThirdPartyMdmEnabled properties are not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

AllowDesignerForCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is allowed to use a designer application to customize this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

AllowMasterPageEditingForCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is allowed to edit the [**master page**](#gt_2bf32c58-c16c-42c6-8243-3cf627bc5637).

AllowRevertFromTemplateForCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is allowed to revert the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to a default [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

AllowRssFeeds

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) allows RSS feeds.

Created

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies when the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) was created.

It MUST NOT be NULL.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

EffectiveBasePermissions

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

Specifies the effective [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) that are assigned to the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76).

It MUST NOT be NULL.

HasUniqueRoleAssignments

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.SecurableObject.HasUniqueRoleAssignments (section 3.2.5.100.1.1.1).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Language

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read Only

Specifies the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) for the language that is used on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

LastItemModifiedDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies when an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) was last modified in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

QuickLaunchEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**Quick Launch**](#gt_a8e96ff8-7028-47b4-afaa-4d06213d3bc8) area is enabled on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

RecycleBinEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) is enabled.

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL. It MUST NOT contain any of the reserved [**Uniform Resource Locators (URLs)**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1). Reserved URLs are implementation-specific and not defined by this protocol. It MUST NOT contain the following illegal characters: [!#$&'+:<>?\\{|}~]|(//)|(\.\.)|(/\_)|(/wpresources$)|(/wpresources/)

ShowUrlStructureForCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is able to view the file system structure of this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

SyndicationEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [[RSS2.0]](https://go.microsoft.com/fwlink/?LinkId=113933) feeds are enabled on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Its length MUST be equal to or less than 255.

TreeViewEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the tree view is enabled on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

UIVersion

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies which version of the user interface (UI) the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) is using. This value MUST be a defined **SPValidUIVersion** value, as specified in the following table.

| SPValidUIVersion | Description |
| --- | --- |
| 3 | Specifies that the site is using the SharePoint 2007 user interface (UI). |
| 4 | Specifies that the site is using the SharePoint 2010 user interface (UI). |

UIVersionConfigurationEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the settings UI for [**visual upgrade**](#gt_08a8e66e-28a6-4a6a-b8ba-b81993b5c427) is shown or hidden.

EnableMinimalDownload

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the site will use the minimal download strategy by default.[<127>](#Appendix_A_127" \o "Product behavior note 127)

The minimal download strategy will use a single .aspx file (start.aspx) for your pages, with the actual [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) encoded in the text following the hash mark ('#'). 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.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<128>](#Appendix_A_128" \o "Product behavior note 128)

CustomMasterUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for a custom [**master page**](#gt_2bf32c58-c16c-42c6-8243-3cf627bc5637) to apply to the [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac).[<129>](#Appendix_A_129" \o "Product behavior note 129)

MasterUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for a [**master page**](#gt_2bf32c58-c16c-42c6-8243-3cf627bc5637) to apply to the [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac).[<130>](#Appendix_A_130" \o "Product behavior note 130)

AppInstanceId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) that this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) represents. If this site does not represent an app instance, then this MUST specify an empty GUID.

DocumentLibraryCalloutOfficeWebAppPreviewersDisabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**Office Add-in**](#gt_8212530d-483d-4917-88bf-ab412b3dc178) previews are disabled for the context menus in a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

Configuration

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read Only

Specifies the identifier (ID) of the [**site definition**](#gt_15e1d3a4-757c-4fe2-9ba0-a20a8bb410fc) that was used to create the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). If the site was created with a custom [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) this specifies the identifier (ID) of the site definition from which the custom site template is derived.

WebTemplate

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**site definition**](#gt_15e1d3a4-757c-4fe2-9ba0-a20a8bb410fc) that was used to create the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). If the site was created with a custom [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) this specifies the name of the site definition from which the custom site template is derived.

SaveSiteAsTemplateEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies if the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) can be saved as a [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

A [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) that creates content which is not compatible for a site template can set this value to false to stop users of this site from generating an invalid site template.

A feature ought to never set this value to true when it is deactivated or at any other time since another feature might have created content that is not compatible in a site template.

Setting this value to false, if it was true, will result in a site template that is not supported.

SupportedUILanguageIds

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**language code identifiers (LCIDs)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) of the languages that are enabled for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

AllowCreateDeclarativeWorkflowForCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is allowed to create declarative workflows. The value, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is the same as the scalar property of **Microsoft.SharePoint.Client.Site.AllowCreateDeclarativeWorkflow**.

AllowSaveDeclarativeWorkflowAsTemplateForCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is allowed to save declarative workflows as a template. The value, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is the same as the scalar property of **Microsoft.SharePoint.Client.Site.AllowSaveDeclarativeWorkflowAsTemplate**.

AllowSavePublishDeclarativeWorkflowForCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is allowed to save or publish declarative workflows. The value, if not disabled on the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb), is the same as the scalar property of **Microsoft.SharePoint.Client.Site.AllowSavePublishDeclarativeWorkflow**.

DesignerDownloadUrlForCurrentUser

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the URL where the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) can download a [**designer**](#gt_6bb6285f-f5b8-45e5-8f32-2a23472532b8).

MembersCanShare

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether to enable site members to invite external users.

SiteLogoUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the server-relative URL of the Web site logo.

AlternateCssUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the URL for an alternate cascading style sheet (CSS) to use in the website.

A string that contains the URL for an alternate CSS file.

ContainsConfidentialInfo

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets a Boolean value that specifies whether the site contains highly confidential information.

If the tenant settings don't allow tagging sites as confidential, this property will always return false.

CurrentChangeToken

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

**Accessibility:** Read Only

Gets the current change token that is implemented in a query against the change log through the **GetChanges** method.

An SPChangeToken object that represents the change token.

IsMultilingual

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets whether Multilingual UI is turned on for this web or not.

OverwriteTranslationsOnChange

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets whether changing the UserResource value in the UICulture of the web overwrites the values for AdditionalUICultures or not.

ThemeData

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

A string of [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) representing a theme.

ThirdPartyMdmEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets the value that indicates whether or not the tenant that uses third-party Mobile Device Management (MDM) have block access to the public OneDrive app, and direct users to their company version of the app.

RequestAccessEmail

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the e-mail address to which requests for access are sent.

###### ObjectPath Properties

AllProperties

**Type:** Microsoft.SharePoint.Client.PropertyValues

**Accessibility:** Read Only

Specifies the collection of name/value pairs of all the [**CSOM expando fields**](#gt_d5c5ed4a-b218-4497-be68-b36fe5eeac6b) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL.

AssociatedMemberGroup

**Type:** Microsoft.SharePoint.Client.Group

**Accessibility:** Read/Write

Specifies the default [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that was created with contribute permissions at the time the site was created.

AssociatedOwnerGroup

**Type:** Microsoft.SharePoint.Client.Group

**Accessibility:** Read/Write

Specifies the default [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that was created with full control permissions at the time the site was created.

AssociatedVisitorGroup

**Type:** Microsoft.SharePoint.Client.Group

**Accessibility:** Read/Write

Specifies the default [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that was created with read permissions at the time the site was created.

AvailableContentTypes

**Type:** Microsoft.SharePoint.Client.ContentTypeCollection

**Accessibility:** Read Only

Specifies the collection of all [**site content types**](#gt_b3cc703d-e37a-4d28-a5c5-747ec463c983) that apply to the current scope, including those of the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), as well as any [**parent sites**](#gt_832a0b82-2411-4e8c-9837-fd674450060d).

It MUST NOT be NULL.

AvailableFields

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

**Accessibility:** Read Only

Specifies the collection of all [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) available for the current scope, including those of the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), as well as any [**parent sites**](#gt_832a0b82-2411-4e8c-9837-fd674450060d).

It MUST NOT be NULL.

ContentTypes

**Type:** Microsoft.SharePoint.Client.ContentTypeCollection

**Accessibility:** Read Only

Specifies the collection of [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL.

CurrentUser

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL.

Features

**Type:** Microsoft.SharePoint.Client.FeatureCollection

**Accessibility:** Read Only

Specifies the collection of [**features**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) that are currently activated in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL.

Fields

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

**Accessibility:** Read Only

Specifies the collection of all the [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL.

Folders

**Type:** Microsoft.SharePoint.Client.FolderCollection

**Accessibility:** Read Only

Specifies the collection of all first-level folders in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL.

Lists

**Type:** Microsoft.SharePoint.Client.ListCollection

**Accessibility:** Read Only

Specifies the collection of [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that are contained in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) available to the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) based on the current user's [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b).

ListTemplates

**Type:** Microsoft.SharePoint.Client.ListTemplateCollection

**Accessibility:** Read Only

Specifies the collection of [**list templates**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) available for creating [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Navigation

**Type:** Microsoft.SharePoint.Client.Navigation

**Accessibility:** Read Only

Specifies the navigation structure on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), including the [**Quick Launch**](#gt_a8e96ff8-7028-47b4-afaa-4d06213d3bc8) area and the [**link bar**](#gt_d1cce096-f894-49df-bb72-88f7e67342d1).

RoleAssignments

**Type:** Microsoft.SharePoint.Client.RoleAssignmentCollection

**Accessibility:** Read Only

See Microsoft.SharePoint.Client.SecurableObject.RoleAssignments (section 3.2.5.100.1.2.1).

RoleDefinitions

**Type:** Microsoft.SharePoint.Client.RoleDefinitionCollection

**Accessibility:** Read Only

Specifies the collection of [**role definitions**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

RootFolder

**Type:** Microsoft.SharePoint.Client.Folder

**Accessibility:** Read Only

Specifies the [**root folder**](#gt_7caaf21a-bb6c-4d5b-9768-eccac5a8833f) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

SiteGroups

**Type:** Microsoft.SharePoint.Client.GroupCollection

**Accessibility:** Read Only

Specifies the collection of the [**site collection groups**](#gt_ba608ab3-e80a-48ff-b178-34891301fc23) for the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that contains the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

SiteUserInfoList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read Only

Specifies the [**user information list**](#gt_871c55fa-c4b9-4df2-a7a0-0b9082ad61c9) for the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that contains the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

UserCustomActions

**Type:** Microsoft.SharePoint.Client.UserCustomActionCollection

**Accessibility:** Read Only

Specifies the collection of [**user custom actions**](#gt_37e5b923-9192-4feb-86fd-668cd85bfcc9) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Webs

**Type:** Microsoft.SharePoint.Client.WebCollection

**Accessibility:** Read Only

Specifies the collection of all child [**sites**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) for the site.

WorkflowAssociations

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

**Accessibility:** Read Only

Specifies the collection of all [**workflow associations**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

WorkflowTemplates

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

**Accessibility:** Read Only

Specifies the collection of [**workflow templates**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) associated with the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

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](#Section_390e6cac98c64e65bdf22dba3c3a80ac).[<131>](#Appendix_A_131" \o "Product behavior note 131)

RecycleBin

**Type:** Microsoft.SharePoint.Client.RecycleBinItemCollection

**Accessibility:** Read Only

Specifies the collection of [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) of the [**Recycle Bin**](#gt_54624800-58f4-45e9-90bf-c9b52dcf98f3) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<132>](#Appendix_A_132" \o "Product behavior note 132)

WebInfos

**Type:** Microsoft.SharePoint.Client.WebInformationCollection

**Accessibility:** Read Only

Specifies the collection of all child [**sites**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) for the site.[<133>](#Appendix_A_133" \o "Product behavior note 133)

ThemeInfo

**Type:** Microsoft.SharePoint.Client.ThemeInfo

**Accessibility:** Read Only

Specifies the site [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) associated with the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<134>](#Appendix_A_134" \o "Product behavior note 134)

EventReceivers

**Type:** Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**Accessibility:** Read Only

Specifies the collection of [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) definitions that are currently available on the [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac).[<135>](#Appendix_A_135" \o "Product behavior note 135)

SiteUsers

**Type:** Microsoft.SharePoint.Client.UserCollection

**Accessibility:** Read Only

Specifies the collection of users in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that contains the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<136>](#Appendix_A_136" \o "Product behavior note 136)

RegionalSettings

**Type:** Microsoft.SharePoint.Client.RegionalSettings

**Accessibility:** Read Only

Specifies the locale settings of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<137>](#Appendix_A_137" \o "Product behavior note 137)

PushNotificationSubscribers

**Type:** Microsoft.SharePoint.Client.PushNotificationSubscriberCollection

**Accessibility:** Read Only

Specifies the collection of push notification subscribers for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<138>](#Appendix_A_138" \o "Product behavior note 138)

It MUST NOT be NULL.

ParentWeb

**Type:** Microsoft.SharePoint.Client.WebInformation

**Accessibility:** Read Only

Specifies the [**parent site**](#gt_832a0b82-2411-4e8c-9837-fd674450060d) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<139>](#Appendix_A_139" \o "Product behavior note 139)

AppTiles

**Type:** Microsoft.SharePoint.Client.AppTileCollection

**Accessibility:** Read Only

Gets the collection of all app tiles that are contained in this website. An SPAppTileCollection that represents the information about the app tiles.

This contains an aggregation of four data sources:

1. DocLibs and Lists, directly from the web.
2. Tenant-provided apps that apply to this web.
3. Apps instantiated by the user in this web.
4. Features activated in this web, which behave like apps.

DataLeakagePreventionStatusInfo

**Type:** Microsoft.SharePoint.Client.SPDataLeakagePreventionStatusInfo

**Accessibility:** Read Only

Gets a collection of DLP status indicators including:

* Whether or not external sharing tips are enabled on the parent site collection.
* The learn more link URL for the external sharing tips.
* Whether or not the site contains highly confidential information.
* The learn more link URL for site confidentiality.

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

A SPUserResource object that represents the description of this web.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

A SPUserResource object that represents the title of this web.

##### Methods

###### Scalar Methods

ApplyWebTemplate

**Return Type:** None

Applies the specified [**site definition**](#gt_15e1d3a4-757c-4fe2-9ba0-a20a8bb410fc) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) to the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that has no template applied to it.

**Parameters:**

*webTemplate:* A string that contains the name of the site definition or the file name of the site template.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

BreakRoleInheritance

**Return Type:** None

See Microsoft.SharePoint.Client.SecurableObject.BreakRoleInheritance (section [3.2.5.118.2.1.1](#Section_95bd3a9179d4418a9d4af6aac0db44c5)).

**Parameters:**

*copyRoleAssignments:* Specifies whether to copy the [**role assignments**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) from the [**parent site**](#gt_832a0b82-2411-4e8c-9837-fd674450060d). If the value is "false", the collection of role assignments MUST contain only 1 role assignment containing the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76).

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*clearSubscopes:* Specifies whether the role assignments for all [**sites**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that inherit from this site MUST be cleared. If the value is "true", all child sites 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. |

DeleteObject

**Return Type:** None

Deletes this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:** None

DoesUserHavePermissions

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Returns whether the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) has the given set of [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b).

**Parameters:**

*permissionMask:*  Specifies the set of permissions to verify.

Type: Microsoft.SharePoint.Client.BasePermissions

It MUST NOT be NULL.

GetWebUrlFromPageUrl

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**root folder**](#gt_7caaf21a-bb6c-4d5b-9768-eccac5a8833f) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) containing the specified URL. This is a static method.

**Parameters:**

*pageFullUrl:* Specifies the URL from which to return the site 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 cannot be found at the given URL. |

MapToIcon

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the name of the image file for the [**icon**](#gt_ec8c21aa-5773-4c2e-99bb-d50e680e1870) that is used to represent the specified [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25).

**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 MUST return an empty string.

*progId:* Specifies the [**ProgID**](#gt_06b2ae3d-4106-49f3-9ca0-e2bcd649e75a) 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 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

ResetRoleInheritance

**Return Type:** None

See Microsoft.SharePoint.Client.SecurableObject.ResetRoleInheritance as specified in section [3.2.5.118.2.1.2](#Section_6e93b6aa3eb547c59708bfa313aad067).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | There are uncommitted changes on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |

Update

**Return Type:** None

Commits changes made to properties of this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:** None

ProcessExternalNotification

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Processes notifications from external system.[<140>](#Appendix_A_140" \o "Product behavior note 140) 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**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024891 | System.UnauthorizedAccessException | Access is denied. User does not have permission to send notifications. |

GetContextWebInformation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Returns an [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) that specifies metadata about the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<141>](#Appendix_A_141" \o "Product behavior note 141)

**Parameters:** None

ExecuteRemoteLOB

**Return Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

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.[<142>](#Appendix_A_142" \o "Product behavior note 142) 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

DoesPushNotificationSubscriberExist

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether the push notification subscriber exists for the current user with the given device [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) identifier.[<143>](#Appendix_A_143" \o "Product behavior note 143)

**Parameters:**

*deviceAppInstanceId:* Device application instance identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |

UnregisterPushNotificationSubscriber

**Return Type:** None

Unregisters the push notification subscriber from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<144>](#Appendix_A_144" \o "Product behavior note 144)

**Parameters:**

*deviceAppInstanceId:* Device [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**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). |

ApplyTheme

**Return Type:** None

Applies the [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) specified by the contents of each of the [**files**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) specified in the arguments to the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*colorPaletteUrl:* The [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**color scheme**](#gt_b0feeac6-f711-4ed7-b8c6-3a490734a9e5) to apply to the site.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST NOT be empty. It MUST be a URL of server-relative form.

*fontSchemeUrl:* The server-relative URL of the [**font scheme**](#gt_d2cfdc52-4222-46a7-8c1e-fffdcadcb973) to apply to the site or NULL to preserve default [**fonts**](#gt_f8aa3f46-99d1-49bb-858f-b4bfa546c1c2).

Type: CSOM String

It MUST be a URL of server-relative form.

*backgroundImageUrl:* The server-relative URL of the image to apply as the background image on the site or NULL to use no background image.

Type: CSOM String

It MUST be a URL of server-relative form.

*shareGenerated:* true to store themed files at the [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12), false to store them in the current site.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

GetUserEffectivePermissions

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

Returns the user permissions for this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba)**.**

**Parameters:**

*userName:* Specifies the user login name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

AddSupportedUILanguage

**Return Type:** None

Adds a supported UI language by its language identifier.

**Parameters:**

*lcid:* Specifies the language identifier to be added.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

CreateAnonymousLink

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Creates and returns an anonymous link that can be used to access a document without needing to authenticate.

**Parameters:**

*url:* The URL of the site, with the path of the object in SharePoint that is represented as query string parameters, forSharing set to 1 if sharing, and mbypass set to 1 to bypass any mobile logic.

Type: CSOM String

For example:

http://contoso.com/?forSharing=1&mbypass=1&List=%7BCF908473%2D72D4%2D449D%2D8A53%2D4BD01EC54B84%7D&obj={CF908473-72D4-449D-8A53-4BD01EC54B84},1,DOCUMENT

*isEditLink:* If true, the link will allow the guest user edit privileges on the item.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

CreateAnonymousLinkWithExpiration

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Creates and returns an anonymous link that can be used to access a document without needing to authenticate.

**Parameters:**

*url:* The URL of the site, with the path of the object in SharePoint that is represented as query string parameters, forSharing set to 1 if sharing, and mbypass set to 1 to bypass any mobile logic.

Type: CSOM String

For example:

http://contoso.com/?forSharing=1&mbypass=1&List=%7BCF908473%2D72D4%2D449D%2D8A53%2D4BD01EC54B84%7D&obj={CF908473-72D4-449D-8A53-4BD01EC54B84},1,DOCUMENT

*isEditLink:* If true, the link will allow the guest user edit privileges on the item.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*expirationString:* A date/time string for which the format conforms to the ISO 8601:2004(E) complete representation for calendar date and time of day, and which represents the time and date of expiry for the anonymous link. Both the minutes and hour value MUST be specified for the difference between the local and UTC time. Midnight is represented as 00:00:00.

Type: CSOM String

For example:

YYYYMMDDThhmmssZ

YYYYMMDDThhmmssÂ±hhmm

YYYYMMDDThhmmssÂ±hh:mm

YYYY-MM-DDThh:mm:ssZ

YYYY-MM-DDThh:mm:ssÂ±hh:mm

YYYY-MM-DDThh:mm:ssÂ±hhmm

A null value indicates no expiry.

CreateOrganizationSharingLink

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Creates and returns an organization-internal link that can be used to access a document and gain permissions to it.

**Parameters:**

*url:* The URL of the site, with the path of the object in SharePoint that is represented as query string parameters, forSharing set to 1 if sharing, and mbypass set to 1 to bypass any mobile logic.

Type: CSOM String

For example:

http://contoso.com/?forSharing=1&mbypass=1&List=%7BCF908473%2D72D4%2D449D%2D8A53%2D4BD01EC54B84%7D&obj={CF908473-72D4-449D-8A53-4BD01EC54B84},1,DOCUMENT

*isEditLink:* If true, the link will allow the logged in user to edit privileges on the item.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

DeleteAllAnonymousLinksForObject

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Removes all existing anonymous links for an object.

**Parameters:**

*url:* The URL of the object being shared, with the path of the object in SharePoint that is represented as query string parameters.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

For example:

http://contoso.com/?obj={CF908473-72D4-449D-8A53-4BD01EC54B84},1,DOCUMENT&List=%7BCF908473%2D72D4%2D449D%2D8A53%2D4BD01EC54B84%7D

DeleteAnonymousLinkForObject

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Removes an existing anonymous link for an object.[<145>](#Appendix_A_145" \o "Product behavior note 145)

**Parameters:**

*url:* The URL of the object being shared, with the path of the object in SharePoint that is represented as query string parameters.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

For example:

http://contoso.com/?obj={CF908473-72D4-449D-8A53-4BD01EC54B84},1,DOCUMENT&List=%7BCF908473%2D72D4%2D449D%2D8A53%2D4BD01EC54B84%7D

*isEditLink:* If true, the edit link for the object will be removed. If false, the view only link for the object will be removed.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*removeAssociatedSharingLinkGroup:* Indicates whether to remove the [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that contain the users who have been given access to the shared object via the sharing link​.

Type: CSOM Boolean

DestroyOrganizationSharingLink

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Removes an existing organization link for an object.[<146>](#Appendix_A_146" \o "Product behavior note 146)

**Parameters:**

*url:* The URL of the object being shared, with the path of the object in SharePoint that is represented as query string parameters.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

For example:

http://contoso.com/?obj={CF908473-72D4-449D-8A53-4BD01EC54B84},1,DOCUMENT&List=%7BCF908473%2D72D4%2D449D%2D8A53%2D4BD01EC54B84%7D

*isEditLink:* If true, the edit link for the object will be removed. If false, the view-only link for the object will be removed.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*removeAssociatedSharingLinkGroup:* Indicates whether to remove the [**groups**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) that contain the users who have been given access to the shared object via the sharing link​.

Type: CSOM Boolean

GetContextWebThemeData

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Get ThemeData for the context web.

**Parameters:** None

GetDocumentLibraries

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.DocumentLibraryInformation

Returns the document libraries of a SharePoint site, specifically a list of objects that represents document library information. Document libraries that are private — picture library, catalog library, asset library, application list, form template or libraries — for whom the user does not have permission to view the items are not included.

**Parameters:**

*webFullUrl:* The URL of the web.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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 | Web cannot be found in the given URL |

IncrementSiteClientTag

**Return Type:** None

Increments the client cache control number for this [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

**Parameters:** None

RemoveSupportedUILanguage

**Return Type:** None

Removes a supported UI language by its language identifier.

**Parameters:**

*lcid:* Specifies the language identifier to be removed.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetClientSideWebParts

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentQueryResult

It MUST return an array of 3rd party webpart components installed on this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*includeErrors:* If true, webparts with errors MUST be included in the results of the request. If false, webparts with errors MUST be excluded in the results of the request.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

###### ObjectPath Methods

EnsureUser

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

If the specified login name belongs to a valid user of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), returns the User [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) corresponding to that user.

If the specified login name belongs to a valid user outside of the site, adds the user to the site and returns the User object (1) corresponding to that user.

**Parameters:**

*logonName:* Specifies a string that contains the login name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetAvailableWebTemplates

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

Returns a collection of [**site templates**](#gt_c215191f-388e-4b56-b537-505a5c635745) available for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*lcid:* Specifies the [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) of the site templates to be retrieved.

Type: [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

If the specified LCID is not a valid LCID as specified in [[MS-LCID]](%5bMS-LCID%5d.pdf#Section_70feba9f294e491eb6eb56532684c37f), the server MUST return an empty collection.

*doIncludeCrossLanguage:* Specifies whether to include language-neutral site templates.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

GetCatalog

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

Returns the [**list template**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) [**gallery**](#gt_0fb3b810-8a76-4796-91ff-73edfcd113d7), [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) gallery, or [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) gallery for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*typeCatalog:* Specifies the type for the gallery

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

The server MUST return NULL if there is no gallery with the specified type or *typeCatalog* is not a valid **ListTemplateType** enumeration value as specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.7.

GetChanges

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

Returns the collection of all changes from the [**change log**](#gt_bb8a8b33-35c9-41ec-b7bd-45f5cf124c4c) that have occurred within the scope of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), based on the specified [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2).

**Parameters:**

*query:* Specifies which changes to return.

Type: Microsoft.SharePoint.Client.ChangeQuery

It MUST NOT be NULL.

GetFileByServerRelativeUrl

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

Returns the [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) located at the specified [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b).

**Parameters:**

*serverRelativeUrl:* Specifies the server-relative URL for the file.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

GetFolderByServerRelativeUrl

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

Returns the [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) that is located at the specified [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1). The user MUST have [**permission**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to browse directories of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) specified by the given URL.

**Parameters:**

*serverRelativeUrl:* Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) for the folder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | *serverRelativeUrl* doesn't correspond to a folder |

GetSubwebsForCurrentUser

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

Returns the collection of [**child**](#gt_bc38f35b-d253-4f8f-8dcc-095e3a211ae0) [**sites**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) of the current site based on the specified [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2).

**Parameters:**

*query:* Specifies which child sites to return.

Type: Microsoft.SharePoint.Client.SubwebQuery

If the query is not valid as described in section [3.2.5.120](#Section_4eaa759fcbce4aad9e1274f382ce3e82), the server MUST return an empty collection.

GetEntity

**Return Type:** Microsoft.BusinessData.MetadataModel.Entity

Specifies the [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf) with the specified namespace and name in the context of the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<147>](#Appendix_A_147" \o "Product behavior note 147) This method is used as the entry point to create, read, update and delete (CRUD) operations against an **Entity** (section [3.2.5.176](#Section_ff7385e3eab641ae92a2a1f0f00b50c1)).

**Parameters:**

*namespace:* The namespace of the external content type

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*name:* The name of the external content type

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 |

GetUserById

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

Returns the user corresponding to the specified member identifier for the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<148>](#Appendix_A_148" \o "Product behavior note 148)

**Parameters:**

*userId:* Specifies the member identifier.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2146232832 | Microsoft.SharePoint.SPException | User cannot be found. |
| -2147024891 | System.UnauthorizedAccessException | Access is denied. |

GetCustomListTemplates

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

Returns the collection of custom [**list templates**](#gt_7584731a-efb5-4d2f-85ec-c3ce5abfcfa7) for a given [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<149>](#Appendix_A_149" \o "Product behavior note 149)

**Parameters:** None

GetSubwebsFilteredForCurrentUser

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

Returns a collection of objects that contain metadata about [**subsites**](#gt_837ca080-dd1b-4fad-bee8-0fc7d22ea384) of the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) in which the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) is a member.[<150>](#Appendix_A_150" \o "Product behavior note 150)

**Parameters:**

*nWebTemplateFilter:* Specifies the [**site definition**](#gt_15e1d3a4-757c-4fe2-9ba0-a20a8bb410fc).

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*nConfigurationFilter:* A 16-bit integer that specifies the identifier of a configuration.

Type: [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

GetAppBdcCatalog

**Return Type:** Microsoft.BusinessData.MetadataModel.AppBdcCatalog

Returns the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) for an [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) that gives access to the [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf)s defined in the BDC metadata model packaged by the application.[<151>](#Appendix_A_151" \o "Product behavior note 151) This method SHOULD be called on the **Web** (section [3.2.5.143](#Section_850bfecad9414c598a2f728a9d500fcd)) object that represents the site for the application and it returns the BDC MetadataCatalog deployed on the site.

**Parameters:** None

GetAppBdcCatalogForAppInstance

**Return Type:** Microsoft.BusinessData.MetadataModel.AppBdcCatalog

Returns the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) for an [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) that gives access to the [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf)s defined in the BDC metadata model packaged by the application.[<152>](#Appendix_A_152" \o "Product behavior note 152) This method SHOULD be called on the **Web** (section [3.2.5.143](#Section_850bfecad9414c598a2f728a9d500fcd)) 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**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

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**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb). |

GetAppInstanceById

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

Returns an [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) instance installed on this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<153>](#Appendix_A_153" \o "Product behavior note 153)

**Parameters:**

*appInstanceId:* Application instance identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

LoadAndInstallApp

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

Uploads and installs an [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) to this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<154>](#Appendix_A_154" \o "Product behavior note 154) This site 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**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

GetPushNotificationSubscriber

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

Specifies the push notification subscriber over the site for the specified device [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) identifier.[<155>](#Appendix_A_155" \o "Product behavior note 155)

**Parameters:**

*deviceAppInstanceId:* Device application instance identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**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**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |

GetPushNotificationSubscribersByArgs

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

Queries for the push notification subscribers for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) with the specified set of custom arguments.[<156>](#Appendix_A_156" \o "Product behavior note 156)

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024891 | System.UnauthorizedAccessException | Caller does not have permissions for the site (2). |

GetPushNotificationSubscribersByUser

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

Queries for the push notification subscribers for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) for the specified user.[<157>](#Appendix_A_157" \o "Product behavior note 157)

**Parameters:**

*userName:* Login name of the user.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

**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). |

RegisterPushNotificationSubscriber

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

Registers the push notification subscriber for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<158>](#Appendix_A_158" \o "Product behavior note 158) If the registration already exists, the service token is updated with the new value.

**Parameters:**

*deviceAppInstanceId:* Device [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*serviceToken:* Token provided by the notification service to the device to receive notifications.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

**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). |

GetAppInstancesByProductId

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.AppInstance

Returns a collection of [**app instances**](#gt_16e39006-3436-4e44-b374-2de11f03544c) installed on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) for the specified [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) with the provided [**app product identifier**](#gt_e303d1e8-3edc-496c-90da-aa07ca17da3f).

**Parameters:**

*productId:* The app product identifier of the specified application.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

LoadAndInstallAppInSpecifiedLocale

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

Uploads and installs an [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) in a specified [**locale**](#gt_7b78ebef-e35d-45ab-abfd-4121b60995de).[<159>](#Appendix_A_159" \o "Product behavior note 159) The site MUST be enabled for remote development. The specified locale MUST be supported by the app package. This method returns a reference to an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

**Parameters:**

*appPackageStream:* The stream of app package.

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

*installationLocaleLCID:* Specifies the locale in which the app package is to be installed.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

LoadApp

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

Uploads an [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) and creates an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) on a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). The site MUST be enabled for remote development. The app instance is initialized with a specified [**locale**](#gt_7b78ebef-e35d-45ab-abfd-4121b60995de) in which it will be installed later. The specified locale MUST be supported by the app package. This method returns a reference to an app instance.

**Parameters:**

*appPackageStream:* The stream of app package.

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

*installationLocaleLCID:* Specifies the locale in which the app package is to be installed later.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

DefaultDocumentLibrary

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

Retrieves the default [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

**Parameters:** None

ForwardObjectLink

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Shares an object in SharePoint, such as a list item or a site with no Acl changes, by sending the link. This is used when the user has no permission to share and cannot send access request. The user can use this method to send the link of the object to site members who already have permission to view the object.

Returns a SharingResult object that contains completion script and page for redirection if desired.

**Parameters:**

*url:* The URL of the website with the path of an object in SharePoint query string parameters.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*peoplePickerInput:* A string of JSON that represents users in the people picker format. Entries in the people picker MUST be existing site members who have view-permission to the object.

Type: CSOM String

*emailSubject:* The e-mail subject.

Type: CSOM String

*emailBody:* The e-mail body.

Type: CSOM String

GetFileByGuestUrl

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

Returns the file object from the guest access URL.

**Parameters:**

*guestUrl:* The guest access URL to get the file with.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

The query string parameters specify the file object identity.

To call this API using the REST endpoint, it is recommended to use a call of the form:

http://server/\_api/web/GetFileByGuestUrl(@v)?@v='http%3A%2F%2Fserver%2F\_layouts%2F15%2Fguestaccess%2Easpx%3fguestaccesstoken%3d<redacted>%26docid=18cd85dfb7a3847218a2ea37e1215a9b4'

where @v is both single quoted and run through the UrlKeyValueEncode method.

It MUST NOT be NULL.

GetFileById

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

Returns the file object with the specified GUID.

**Parameters:**

*uniqueId:* A GUID that identifies the file object.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

It MUST NOT be NULL.

GetFileByLinkingUrl

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

Returns the file object from the linking URL.

**Parameters:**

*linkingUrl:* The linking URL to return the file object for. A linking URL can be obtained from LinkingUrl.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

A linking URL might not point to the canonical URL specified in the input string due to a rename operation having occurred. The query string is what actually specifies the file object identity.

To call this API from the client object model, it is recommended to use a call of the form:

http://server/\_api/web/GetFileByLinkingUrl(@v)?@v='%2fShared%20Documents%2fdoc.docx%3fd%3dw0aca4baf33bd48e0bcfd06f54682ff7a'

where @v is both single quoted and run through the UrlKeyValueEncode method.

It MUST NOT be NULL.

GetFolderById

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

Returns the folder object with the specified GUID.

**Parameters:**

*uniqueId:* A GUID that identifies the folder.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

It MUST NOT be NULL.

GetList

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

Returns the list that is associated with the specified site-relative URL.

**Parameters:**

*strUrl:* A string that contains the site-relative URL for a list, for example, /Lists/Announcements.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetObjectSharingSettings

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Given a path to an object in SharePoint, this will generate a sharing settings object which contains necessary information for rendering sharing information.

**Parameters:**

*objectUrl:* A URL with one of two possible formats.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

The two possible URL formats are:

1) The URL of the site, with the path of the object in SharePoint represented as query string parameters, forSharing set to 1 if sharing, and mbypass set to 1 to bypass any mobile logic e.g. http://contoso.com/?forSharing=1&mbypass=1&List=%7BCF908473%2D72D4%2D449D%2D8A53%2D4BD01EC54B84%7D&obj={CF908473-72D4-449D-8A53-4BD01EC54B84},1,DOCUMENT

2) The URL of the SharePoint object (web, list, item) intended for sharing e.g. http://contoso.com/Documents/SampleFile.docx

*groupId:* The id value of the permissions group if adding to a group, 0 otherwise.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*useSimplifiedRoles:* A Boolean value indicating whether to use the SharePoint simplified roles (Edit, View) or not.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

ShareObject

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

This method shares an object in SharePoint such as a list item or site. It returns a SharingResult object which contains the completion script and a page to redirect to if desired.

**Parameters:**

*url:* The URL of the website with the path of an object in SharePoint query string parameters.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*peoplePickerInput:* A string of JSON representing users in people picker format.

Type: CSOM String

*roleValue:* The sharing role value for the type of permission to grant on the object.

Type: CSOM String

*groupId:* The ID of the group to be added. Zero if not adding to a permissions group.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*propagateAcl:* A flag to determine if permissions SHOULD be pushed to items with unique permissions.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*sendEmail:* A flag to determine if an email notification SHOULD be sent (if email is configured).

Type: CSOM Boolean

*includeAnonymousLinkInEmail:* If an email is being sent, this determines if an anonymous link SHOULD be added to the message.

Type: CSOM Boolean

*emailSubject:* The email subject.

Type: CSOM String

*emailBody:* The email body.

Type: CSOM String

*useSimplifiedRoles:* A Boolean value indicating whether to use the SharePoint simplified roles (Edit, View) or not.

Type: CSOM Boolean

UnshareObject

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Removes Sharing permissions on an object.

**Parameters:**

*url:* A SharingResult object which contains status codes pertaining to the completion of the operation.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetRecycleBinItems

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

Returns a collection of [**Recycle Bin items**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) within this [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*pagingInfo:* A string describing paging information for the next page of Recycle Bin items.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

MUST be formatted as a [**URL-encoded**](#gt_c2b5877a-c8a7-43c5-a540-c106114b8fdc) form body as described in [[HTML]](https://go.microsoft.com/fwlink/?LinkId=89880) section “17.13.4 - Form content types”. MUST contain the following [**key value pairs (KVP)**](#gt_b334e51c-02fa-407f-93d2-402ce53f3c0f):

| Key name | Description of [value](#gt_7bc13a0c-ca1a-4c78-b1bf-67e243f778bb) | Type of value |
| --- | --- | --- |
| id | The [**item identifier**](#gt_d67b771d-3de7-4425-b81f-ebe9f08ce5da) of the Recycle Bin item to display first on the next page of Recycle Bin items. | [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa) |
| title | The title of the Recycle Bin item to display first on the next page of Recycle Bin items. | CSOM String |
| searchValue | The value to search for in the [**column**](#gt_9fc0c6e3-3fd3-4cfd-bf45-7b5d3461f972) specified by the *orderBy* parameter. | CSOM String |

*rowLimit:* The maximum number of Recycle Bin items to retrieve.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*isAscending:* Specifies whether the Recycle Bin items are sorted in ascending order by the column specified in the *orderBy* parameter. A value of true indicates ascending order, and a value of false indicates descending order.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*orderBy:* The column to sort results by.

Type: Microsoft.SharePoint.Client.RecycleBinOrderBy

*itemState:* Specifies whether to retrieve items from the [**first-stage Recycle Bin**](#gt_970ee609-0ab2-458a-a2d1-b144afa187c5) or the [**second-stage Recycle Bin**](#gt_22bbbc9c-25bb-4f5b-957f-591572cba75e).

Type: Microsoft.SharePoint.Client.RecycleBinItemState

#### Microsoft.SharePoint.Client.WebCollection

**TypeId:** {C197D59E-D070-43BF-AD5E-10D6152E38A6}

**ShortName:** SP.WebCollection

Specifies a collection of [**sites**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Creates a new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) and adds it to this collection of sites.

**Parameters:**

*parameters:* Specifies the properties of the new site.

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 *parameters* is already in use. |

#### Microsoft.SharePoint.Client.WebCreationInformation

**TypeId:** {8F9E9FBE-189E-492F-884F-98F9EF9CC4D6}

**ShortName:** SP.WebCreationInformation

Specifies the properties of a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that is to be created.

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description of the new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Language

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) specifying the language of the new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST be a valid LCID, as specified in [[MS-LCID]](%5bMS-LCID%5d.pdf#Section_70feba9f294e491eb6eb56532684c37f).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title of the new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Its length MUST be equal to or less than 255.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**leaf name**](#gt_c3c1a51b-f3e1-40b2-8e48-ae956e1975f5) of the new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

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’.

UseSamePermissionsAsParentSite

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) inherits permissions from its [**parent site**](#gt_832a0b82-2411-4e8c-9837-fd674450060d).

WebTemplate

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) to be used for creating the new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba)

It MUST refer to an existing site template.

###### ObjectPath Properties

None.

#### 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**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682), and add new ones to the Web Part Page.

##### Properties

###### Scalar Properties

HasPersonalizedParts

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682) contains one or more [**personalized Web Parts**](#gt_4d2e8958-f361-42af-b6ca-3382895177ea).

Its value MUST be "true" if both the [**personalization scope**](#gt_edc28cba-9cda-4912-b789-a373cf4593db) of the Web Part Page is "User" and the Web Part Page contains one or more personalized Web Parts; otherwise, it MUST be "false".

Scope

**Type:** Microsoft.SharePoint.Client.WebParts.PersonalizationScope

**Accessibility:** Read Only

Specifies the current [**personalization scope**](#gt_edc28cba-9cda-4912-b789-a373cf4593db) of the [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682).

Its value MUST be "User" if personalized data is loaded for the [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on the Web Part Page, or "Shared" if common data for all users is loaded.

###### ObjectPath Properties

WebParts

**Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinitionCollection

**Accessibility:** Read Only

A collection of the [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on the [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682) available to the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) based on the current user’s permissions.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

AddWebPart

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Adds a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) to the [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682) and returns a [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the SP.WebParts.WebPartDefinition of the newly added Web Part.

When **Scope** is *User*, the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) MUST have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to add and delete [**personalized Web Parts**](#gt_4d2e8958-f361-42af-b6ca-3382895177ea). 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**](#gt_c8c6855e-3cec-48a0-b2e9-2413cec55adc) to which to add the Web Part.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**](#gt_71e13013-545b-4abf-bfc7-e5c311a57e58) that specifies the position at which the Web Part is to be inserted within the Web Part zone.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

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.

ImportWebPart

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Imports a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) from a string in the .dwp format as specified in [[MS-WPPS]](%5bMS-WPPS%5d.pdf#Section_4a4c6550bd7e4f8fb964c1501183f90e) 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**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682). To add a Web Part to a Web Part Page, use **AddWebPart**, supplying the [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) returned by this method. A [**reference**](#gt_d90284c0-f6d0-4576-83f8-69ed5a31d87f) to the added SP.WebParts.WebPartDefinition is returned.

When **Scope** is **User**, the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) MUST have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to add and delete [**personalized Web Parts**](#gt_4d2e8958-f361-42af-b6ca-3382895177ea). When **Scope** is **Shared**, the current user MUST have permissions to customize pages.

**Parameters:**

*webPartXml:* The Web Part markup to import.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

#### Microsoft.SharePoint.Client.WebParts.PersonalizationScope

**ShortName:** SP.WebParts.PersonalizationScope

**Flag:** false

Specifies the [**personalization scope**](#gt_edc28cba-9cda-4912-b789-a373cf4593db) for the **LimitedWebPartManager** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Field Values

###### User

**Value:** 0

**[Personalization data](#gt_ca7b3aa3-be84-463a-9343-2ddd49b5af3a)** that is user-specific, as well as personalization data that applies to all users, is loaded for all [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682) that support personalization data. Only personalization data that is user-specific is saved on the Web Part Page. When referring to the scope associated with a Web Parts control property, **User** scope indicates that the property can only load and store data applicable to all users when running on a page in **Shared** scope. However, when the property's control is running on a page in **User** scope, the property's per-user and all-user data will be loaded and merged. In this case, though, only per-user data will be saved when a page is running in **User** scope.

###### Shared

**Value:** 1

**[Personalization data](#gt_ca7b3aa3-be84-463a-9343-2ddd49b5af3a)** that applies to all users is loaded for all [**Web Parts**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682) and is available to be saved on the Web Part Page. When referring to the scope associated with a Web Parts control property, **Shared** scope indicates that the property normally only allows loading or saving of data associated with all users.

#### Microsoft.SharePoint.Client.WebParts.WebPart

**TypeId:** {612A6BD9-6C99-43C9-813A-8D7E19702118}

**ShortName:** SP.WebParts.WebPart

*Represents a* [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682).

##### Properties

###### Scalar Properties

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) is displayed on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682).

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".

IsClosed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) is currently closed on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682).

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](#Section_bf57eb40b3ba47859b1c643eab42942a), and **WebPartDefinition*.*CloseWebPart**, as specified in section [3.2.5.149.2.1.1](#Section_1ca8aec6acac45fabe995199f88287f8).

Subtitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a string that is concatenated with the **Title** property value to form a complete title for a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be).

The default value is an empty string ("").

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title of a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be).

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.

TitleUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) to the supplemental information about a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be).

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 MAY accept other strings without validating them.

ZoneIndex

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the index position of a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) within the [**Web Part zone**](#gt_c8c6855e-3cec-48a0-b2e9-2413cec55adc).

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.

###### ObjectPath Properties

Properties

**Type:** Microsoft.SharePoint.Client.PropertyValues

**Accessibility:** Read Only

Gets customizable properties for the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) as specified by **Microsoft.SharePoint.Client.PropertyValues** (section [3.2.5.101](#Section_a17a3f384cdc4f319143d6fb39fe867b)).[<160>](#Appendix_A_160" \o "Product behavior note 160)

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.WebParts.WebPartDefinition

**TypeId:** {44BF1024-6127-432A-8E3D-FB317FB4541E}

**ShortName:** SP.WebParts.WebPartDefinition

Represents a [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682). Provides operations for moving, deleting, and changing the state of the Web Part.

##### Properties

###### Scalar Properties

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**Web Part identifier**](#gt_120841e8-12b2-42dc-be46-a9367c206efe) of the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be).

This value MUST be unique for each Web Part.

###### ObjectPath Properties

WebPart

**Type:** Microsoft.SharePoint.Client.WebParts.WebPart

**Accessibility:** Read Only

The **WebPart** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca), as specified in section [3.2.5.148](#Section_e0d8cbed27464f0f82cd41e44785f953), associated with this **WebPartDefinition**. The **WebPart** object (1) contains additional properties relating to the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) 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.

##### Methods

###### Scalar Methods

CloseWebPart

**Return Type:** None

Closes the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be). If the Web Part is already closed, this method does nothing.

If the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) does not have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to modify the Web Part, the server MUST ignore the call to this method.

**Parameters:** None

DeleteWebPart

**Return Type:** None

Deletes the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) from the page.

When **Scope** is **User**, the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) MUST have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to add and delete [**personalized Web Parts**](#gt_4d2e8958-f361-42af-b6ca-3382895177ea). 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. |

MoveWebPartTo

**Return Type:** None

Moves the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) to a different location on a [**Web Part Page**](#gt_95e70d5e-c558-4466-ad1a-e3f37ddd3682).

If the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) does not have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to modify the Web Part, the server MUST ignore the call to this method.

**Parameters:**

*zoneID:* The name of the [**Web Part zone**](#gt_c8c6855e-3cec-48a0-b2e9-2413cec55adc) to which to move the Web Part.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**](#gt_71e13013-545b-4abf-bfc7-e5c311a57e58) that specifies the position at which the Web Part is to be moved within the destination Web Part zone.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

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](#Section_f6f711041a00470b8576298da6931877).

Its value MUST be equal to or greater than 0.

OpenWebPart

**Return Type:** None

Opens the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be). If the Web Part is already open, this method does nothing.

If the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) does not have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to modify the Web Part, the protocol server MUST ignore the call to this method.

**Parameters:** None

SaveWebPartChanges

**Return Type:** None

Saves changes to the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) made by using other properties and methods on the WebPartDefinition [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

If the [**current user**](#gt_f2fea6e5-8b0f-4cf0-8245-cc908b7fde76) does not have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to modify the Web Part, the protocol server MUST ignore the call to this method.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.WebParts.WebPartDefinitionCollection

**TypeId:** {01C986B2-57A6-49FB-B8F1-DF159F5B2349}

**ShortName:** SP.WebParts.WebPartDefinitionCollection

Implements a collection of [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) definition [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetById

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Returns the [**Web Part**](#gt_6c241eba-98bb-4a9c-b1fc-da406c9cc1be) definition [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) in the collection with a [**Web Part identifier**](#gt_120841e8-12b2-42dc-be46-a9367c206efe) equal to the *id* parameter.

**Parameters:**

*id:* The Web Part identifier of the Web Part definition to retrieve.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

All **WebPartDefinition** objects (1) MUST have a unique value for their **Id** property.

GetByControlId

**Return Type:** Microsoft.SharePoint.Client.WebParts.WebPartDefinition

Returns the **WebPartDefinition** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) in the collection with a [**Hypertext Markup Language (HTML)**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) **ID** attribute equal to the *controlId* parameter.[<161>](#Appendix_A_161" \o "Product behavior note 161)

**Parameters:**

*controlId:*  The HTML **ID** attribute of the **WebPartDefinition**.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

All **WebPartDefinition** objects (1) in the collection MUST have a unique value for their HTML **ID** attribute.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2146233086 | System.ArgumentOutOfRangeException | There is no **WebPartDefinition** object (1) in the collection with a **ControlId** property equal to the *controlId* parameter. |

#### Microsoft.SharePoint.Client.WebTemplate

**TypeId:** {2BE10268-4BE1-4B5A-850D-D06B137A9C40}

**ShortName:** SP.WebTemplate

Specifies a [**site definition**](#gt_15e1d3a4-757c-4fe2-9ba0-a20a8bb410fc) or a [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) that is used to instantiate a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the description for the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

DisplayCategory

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) for the category that this [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) is a part of.

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the unique identifier for the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or the [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

ImageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the image that is associated with the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

IsHidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) is displayed in the user interface for creating new [**sites**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

IsRootWebOnly

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) can only be applied to the [**top-level site**](#gt_1b63c1db-e09e-48ba-95af-d5cfc2a7cb12) in the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

IsSubWebOnly

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) can only be applied to [**subsites**](#gt_837ca080-dd1b-4fad-bee8-0fc7d22ea384) created within the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

Lcid

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read Only

Specifies the [**LCID**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) for the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name for the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) for the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) or [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.WebTemplateCollection

**TypeId:** {15C2ECDA-D49E-4FDA-97C8-C538A203DFB5}

**ShortName:** SP.WebTemplateCollection

Specifies a collection of [**site templates**](#gt_c215191f-388e-4b56-b537-505a5c635745).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetByName

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

Returns the **SP.WebTemplate** (section [3.2.5.151](#Section_67995923bec74caba1b2e4b84f7ea4b8)) specified by its name.[<162>](#Appendix_A_162" \o "Product behavior note 162)

**Parameters:**

*name:* The name of the **SP.WebTemplate** that is returned.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.ArgumentException | The **SP.WebTemplate** specified by *strKey* does not exist. |

#### Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

**TypeId:** {5B590642-3966-4F67-B937-C1DB8528A1D3}

**ShortName:** SP.Workflow.WorkflowAssociation

Represents the association of a [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) with a specific [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) or [**content type**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d)

##### Properties

###### Scalar Properties

AllowManual

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) based on this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) 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.

AssociationData

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) data for [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) created from this workflow association.

AutoStartChange

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) are to be created from this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) and started automatically when a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) 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.

AutoStartCreate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) are to be created from this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) and started automatically when a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) 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.

BaseId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) on which this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) is based.

Created

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the date and time at which this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) was created.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description for this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

Enabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether new [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) is allowed for this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

**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**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) that has been deactivated. |

HistoryListTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to which to log [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) history [**events (2)**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) for this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917). Every workflow association MUST return its own [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) for this property.

InstantiationUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**workflow initiation form**](#gt_01a77c41-230c-45c6-9005-482fb07b2827) for this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the internal name of this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917), as determined by the **WorkflowAssociation** implementation.

IsDeclarative

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) represents a [**declarative workflow**](#gt_c7aba7d2-b309-40cf-9280-a84b2333347a).

ListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) on which this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) resides.

Modified

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the date and time at which this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) was last modified.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

TaskListTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title of the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) within which [**workflow tasks**](#gt_289f7180-f709-4587-be77-7eb0daa60eec) are to be created for this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) on which the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) resides.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Removes this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) from its parent **WorkflowAssociations** collection.

**Parameters:** None

Update

**Return Type:** None

Informs this [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917)’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**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCollection

**TypeId:** {4E1196EA-CE71-4AA9-B3C0-3F8DA05DEEC9}

**ShortName:** SP.Workflow.WorkflowAssociationCollection

Implements a collection of [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca). Provides operations for listing existing workflow associations and adding new ones.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

Creates a new [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) based on properties specified in the **parameters** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca), 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.

GetById

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

Returns the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) in the collection with an identifier equal to the *associationId* parameter, or NULL if no such [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) exists in the collection or *associationId* is an empty [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).

**Parameters:**

*associationId:* The GUID of the workflow association object (1) to retrieve.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Each workflow association MUST have a unique GUID.

GetByName

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowAssociation

Returns the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) in the collection with a **Name** property equal to the *name* parameter, or NULL if no such [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) exists in the collection.

**Parameters:**

*name:* The name of the workflow association to retrieve.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

All workflow association objects (1) in the collection MUST have unique values for their **Name** property.

#### Microsoft.SharePoint.Client.Workflow.WorkflowAssociationCreationInformation

**TypeId:** {3C812F4F-8465-41CB-B298-BD33B2604A51}

**ShortName:** SP.Workflow.WorkflowAssociationCreationInformation

Specifies properties for a new [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

##### Properties

###### Scalar Properties

ContentTypeAssociationHistoryListName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**workflow history list**](#gt_91f9b840-6741-4ca9-958d-50b741322d5d) to be used by a [**site content type**](#gt_b3cc703d-e37a-4d28-a5c5-747ec463c983) [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

Its value MUST NOT be NULL and MUST NOT be empty if the [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) are to be created with a site content type [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) and the value of **HistoryList** is NULL. Its value MUST be ignored for any other type of workflow template.

ContentTypeAssociationTaskListName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**workflow task list**](#gt_1c54e377-63fa-45e8-81b4-198f93166a73) to be used by a [**site content type**](#gt_b3cc703d-e37a-4d28-a5c5-747ec463c983) [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

Its value MUST NOT be NULL and MUST NOT be empty if the [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) are to be created with a site content type [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) and the value of **TaskList** is NULL. Its value MUST be ignored for any other type of workflow template.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name to be given to the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

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)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) as the new workflow association.

###### ObjectPath Properties

HistoryList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read/Write

Specifies the [**workflow history list**](#gt_91f9b840-6741-4ca9-958d-50b741322d5d) to be used by the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

Its value MUST NOT be NULL, unless the [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) are to be based on a [**site content type**](#gt_b3cc703d-e37a-4d28-a5c5-747ec463c983) [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) and the value of **Content.Type.Association.History.ListName** is not NULL and NOT empty.

TaskList

**Type:** Microsoft.SharePoint.Client.List

**Accessibility:** Read/Write

Specifies the [**workflow task list**](#gt_1c54e377-63fa-45e8-81b4-198f93166a73) to be used by the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

Its value MUST NOT be NULL, unless the [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) is to be based on a [**site content type**](#gt_b3cc703d-e37a-4d28-a5c5-747ec463c983) [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) and the value of **ContentType.Association.Task.List.Name** is not NULL or empty.

Template

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

**Accessibility:** Read/Write

Specifies the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) to be used in the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917).

Its value MUST NOT be NULL.

#### Microsoft.SharePoint.Client.Workflow.WorkflowTemplate

**TypeId:** {36DE6DBB-60D6-4131-B47F-E895798E1E93}

**ShortName:** SP.Workflow.WorkflowTemplate

Represents a [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) currently deployed on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

AllowManual

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether [**workflow associations**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) based on this [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) can be configured to allow [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) to be started manually.

AssociationUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The [**site-relative URL**](#gt_5a81699e-a300-4686-b75f-42539f221dc3) of the [**workflow association**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) [**form**](#gt_c7858bfa-d4d2-48a7-ac9c-d2e90fbe3590) to use with the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622). If the workflow template has no workflow association form, the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) MUST return an empty string ("").

It MUST be a URL of relative form.

AutoStartChange

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether [**workflow associations**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) based on this [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) can be configured to start [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) automatically when an item is changed.

AutoStartCreate

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether [**workflow associations**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) based on this [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) can be configured to start [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) automatically when an item is created.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The description for the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622).

Its length MUST be equal to or less than 255.

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

The [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) identifier. Every template MUST have its own unique [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).

IsDeclarative

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) represents a [**declarative workflow**](#gt_c7aba7d2-b309-40cf-9280-a84b2333347a).

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The name of the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622). This name is displayed in the user interface when creating new [**workflow associations**](#gt_92283c0a-91f9-4a28-aa54-43a6704fa917) of this template.

It MUST NOT be NULL. It MUST NOT be empty. Its length MUST be equal to or less than 255.

PermissionsManual

**Type:** Microsoft.SharePoint.Client.BasePermissions

**Accessibility:** Read Only

The [**permission level**](#gt_7b866a3b-aaf9-4c45-b627-7607747a2032) required for a user to manually start [**workflow instances**](#gt_97e5498c-1497-44d2-a334-22e8dfc1baf7) based on the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.Workflow.WorkflowTemplateCollection

**TypeId:** {F64CC3D2-888A-43CC-B579-EF32F83338A4}

**ShortName:** SP.Workflow.WorkflowTemplateCollection

The collection of [**workflow templates**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) deployed on a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetById

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowTemplate

Returns a [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) based on the workflow template identifier.

It MUST return the **WorkflowTemplate** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetByName

**Return Type:** Microsoft.SharePoint.Client.Workflow.WorkflowTemplate

Returns the [**workflow template**](#gt_4c02eea6-c699-48f8-8cb4-a070e6104622) matching the *name* provided.

It MUST return the **WorkflowTemplate** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

#### Microsoft.BusinessData.MetadataModel.Collections.EntityFieldCollection

**TypeId:** {53746712-30F8-4626-8BC5-B1A421452652}

**ShortName:** SP.BusinessData.Collections.EntityFieldCollection

Represents a read only collection of [**Fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).[<163>](#Appendix_A_163" \o "Product behavior note 163)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.Collections.EntityIdentifierCollection

**TypeId:** {0BF0D5B7-DF64-4520-A1E1-76BC7517EE24}

**ShortName:** SP.BusinessData.Collections.EntityIdentifierCollection

Represents a read only collection of identifiers.[<164>](#Appendix_A_164" \o "Product behavior note 164)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.Collections.LobSystemInstanceCollection

**TypeId:** {3688D19C-D248-48CD-A46E-5F6719073953}

**ShortName:** SP.BusinessData.Collections.LobSystemInstanceCollection

Represents a read only collection of [**LobSystemInstances**](#gt_6753eeed-2264-4233-b3b2-c889e101b4f1).[<165>](#Appendix_A_165" \o "Product behavior note 165)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.Collections.TypeDescriptorCollection

**TypeId:** {E33CCA95-E780-4A9E-8704-FEE069A29E02}

**ShortName:** SP.BusinessData.Collections.TypeDescriptorCollection

Represents a read only collection of type descriptors.[<166>](#Appendix_A_166" \o "Product behavior note 166)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.EntityField

**TypeId:** {2EA29BD5-5A5E-407C-A956-BA7BABC6DCC7}

**ShortName:** SP.BusinessData.EntityField

Represents a data element in a [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).[<167>](#Appendix_A_167" \o "Product behavior note 167)

##### Properties

###### Scalar Properties

ContainsLocalizedDisplayName

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the **EntityField** (section [3.2.5.162](#Section_1ba021e658dd4249a42865c1ffb52fc3)) contains a localized display name.

DefaultDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the default display name of the **EntityField** (section [3.2.5.162](#Section_1ba021e658dd4249a42865c1ffb52fc3)).

LocalizedDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the localized display name of the **EntityField** (section [3.2.5.162](#Section_1ba021e658dd4249a42865c1ffb52fc3)).

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Retrieves the name of the **EntityField** (section [3.2.5.162](#Section_1ba021e658dd4249a42865c1ffb52fc3)).

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

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.EntityView

**TypeId:** {971264EB-8186-4B1D-9FB0-F3F9D2BDFB66}

**ShortName:** SP.BusinessData.EntityView

An **EntityView** represents a collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).[<168>](#Appendix_A_168" \o "Product behavior note 168)

##### Properties

###### Scalar Properties

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the **EntityView** (section [3.2.5.163](#Section_d11e4c96cfcf4a64ac3e54e606af6b4e)).

RelatedSpecificFinderName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies name of the [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) method instance of this **EntityView** (section [3.2.5.163](#Section_d11e4c96cfcf4a64ac3e54e606af6b4e)).

If the [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8) contains a set of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that are not completely addressed by any of the [**Finders**](#gt_7d0c8796-81a5-4bf3-bce3-de23859223e0) in the [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf), then this property MUST return null.

###### ObjectPath Properties

Fields

**Type:** Microsoft.BusinessData.MetadataModel.Collections.EntityFieldCollection

**Accessibility:** Read Only

Specifies the collection of [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

##### Methods

###### Scalar Methods

GetType

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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 | *fieldDotNotation* is **null**. |
| -1 | System.InvalidOperationException | Type descriptor with the given field does not exist. |

GetXmlSchema

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) of the [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

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**](#gt_a364f92c-0374-4568-b7f8-40bd74437dd5) for each of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the View. The XML element is declared based on the TypeDescriptors that correspond to field (2).

**Parameters:** None

###### ObjectPath Methods

GetDefaultValues

**Return Type:** Microsoft.BusinessData.Runtime.EntityFieldValueDictionary

Gets a **EntityFieldValueDictionary** (section [3.2.5.164](#Section_a78c8e7a5144486eb6d3429ff603c8b4)) that contains the default values for this [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

**Parameters:** None

GetTypeDescriptor

**Return Type:** Microsoft.BusinessData.MetadataModel.TypeDescriptor

Gets the **TypeDescriptor** (section [3.2.5.180](#Section_2eb9240376854b6ea89c1983703ac0d5)) object that corresponds to the given field name.

**Parameters:**

*fieldDotNotation:* The given field name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | *fieldDotNotation* is **null.** |
| -1 | System.InvalidOperationException | Type descriptor with the given field name does not exist. |

#### Microsoft.BusinessData.Runtime.EntityFieldValueDictionary

**TypeId:** {5BC2B16A-0BEE-449A-9EF0-8A504CA2AD22}

**ShortName:** SP.BusinessData.Runtime.EntityFieldValueDictionary

Specifies the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value dictionary for data exchange.[<169>](#Appendix_A_169" \o "Product behavior note 169) 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.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

*size:* The size of the collection.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Its value MUST be equal to or greater than 0.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | *fieldDotNotation* is **null** or empty. |
| -1 | System.InvalidOperationException | Type descriptor with the given field name does not exist. |

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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 | At least one of the given field name is **null** or empty. |
| -1 | System.InvalidOperationException | Type descriptor with the given field name does not exist. |

FromXml

**Return Type:** None

Sets the value in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value dictionary (section [3.2.5.164](#Section_a78c8e7a5144486eb6d3429ff603c8b4)) from the given [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85).

**Parameters:**

*xml:* A string containing the XML data.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

An example of the XML format is specified in section [3.2.5.164.2.1.6](#Section_5197cd4092064de88454c0388cc3effa).

It MUST NOT be empty.

It MUST NOT be NULL.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | Input XML is **null** or empty. |

GetCollectionSize

**Return Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Returns the size of the collection specified by the field name.

**Parameters:**

*fieldDotNotation:* The path to the collection.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | *fieldDotNotation* is **null** or empty. |
| -1 | System.InvalidOperationException | Type descriptor with the given dot notation doesn't exist. |

SetFieldValue

**Return Type:** None

Sets a value in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value dictionary.

**Parameters:**

*fieldDotNotation:* The input field name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*value:* Value to be set.

Type: [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | *fieldDotNotation* is **null** or empty. |
| -1 | System.InvalidOperationException | Type descriptor with the given field name does not exist. |

ToXml

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the value in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value dictionary in [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85).

The XML output is implementation-specific. One such example of the XML output having four values in the EntityFieldValueDictionary is the following:

1. <GenericEntityGenericInvoker xmlns="http://tempuri.org/XMLSchema.xsd/Microsoft.Lobi.WCFModel">
2. <DoubleValue>555</DoubleValue>
3. <FloatValue>5</FloatValue>
4. <IntValue>55</IntValue>
5. <ShortValue>105</ShortValue>
6. </GenericEntityGenericInvoker>

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.Runtime.EntityIdentity

**TypeId:** {36C08DBD-02E6-493E-99F5-DF3F18342F85}

**ShortName:** SP.BusinessData.Runtime.EntityIdentity

Specifies a metadata for [**Entity**](#gt_6b53b132-5b85-4d98-9bc2-44413d48adcb) identity.[<170>](#Appendix_A_170" \o "Product behavior note 170)

##### Properties

###### Scalar Properties

IdentifierCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the count of the identifiers.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

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: [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

#### 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.[<171>](#Appendix_A_171" \o "Product behavior note 171) For example, customer and order information in a [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7) business application.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*size:* The size of the collection.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | *fieldDotNotation* is **null** or empty. |
| -1 | System.InvalidOperationException | Type descriptor with the given field name does not exist. |

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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*fieldDotNotation:* The path to the object.

Type: CSOM String

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | At least one of the given field names is **null** or empty. |
| -1 | System.InvalidOperationException | Type descriptor with the given field name does not exist. |

DeleteObject

**Return Type:** None

Deletes this **EntityInstance** (section [3.2.5.166](#Section_5162ca48731947918bcc373856b6f567)).

**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. |

FromXml

**Return Type:** None

Specifies the value in **EntityInstance** dictionary from given [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85).

**Parameters:**

*xml:* A string containing the XML value.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

An example of the XML format is specified in section [3.2.5.164.2.1.6](#Section_5197cd4092064de88454c0388cc3effa).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | Input XML is **null** or empty. |

SetFieldValue

**Return Type:** None

Method to set value.

**Parameters:**

*fieldDotNotation:* The input [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*value:* Value to be set.

Type: [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | *fieldDotNotation* is **null** or empty. |
| -1 | System.InvalidOperationException | Type descriptor with the given field name does not exist. |

ToXml

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns methods and properties defined in **EntityInstance** (section [3.2.5.166](#Section_5162ca48731947918bcc373856b6f567)) in [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) format.

An example of XML output format is specified in section [3.2.5.164.2.1.6](#Section_5197cd4092064de88454c0388cc3effa)

**Parameters:** None

Update

**Return Type:** None

Invokes the update method for this **EntityInstance** (section [3.2.5.166](#Section_5162ca48731947918bcc373856b6f567)).

**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. |

###### ObjectPath Methods

GetIdentity

**Return Type:** Microsoft.BusinessData.Runtime.EntityIdentity

Returns the identity of this **EntityInstance** (section [3.2.5.166](#Section_5162ca48731947918bcc373856b6f567)).

**Parameters:** None

#### Microsoft.SharePoint.Client.AlternateUrl

**TypeId:** {19E49AB8-90D1-44E1-B186-FACE114707F5}

**ShortName:** SP.AlternateUrl

Encapsulates a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) and the zone with which it is associated.[<172>](#Appendix_A_172" \o "Product behavior note 172)

##### Properties

###### Scalar Properties

Uri

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Identical to the incoming [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1), but in [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) form.

UrlZone

**Type:** Microsoft.SharePoint.Client.UrlZone

**Accessibility:** Read Only

Specifies the zone associated with this [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.Analytics.EventTypeId

**ShortName:** SP.Analytics.EventTypeId

**Flag:** false

Specifies the type of an analytics event.[<173>](#Appendix_A_173" \o "Product behavior note 173)

##### Field Values

###### View

**Value:** 1

Specifies an event associated with viewing an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

###### First

**Value:** 1

Reserved. This value will be removed in a future iteration of the protocol.

###### RecommendationView

**Value:** 2

Specifies the event associated with displaying an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) recommendation.

###### RecommendationClick

**Value:** 3

Specifies the event associated with following an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) recommendation.

###### Last

**Value:** 3

Reserved. This value will be removed in a future iteration of the protocol.

###### None

**Value:** 0

Specifies an event type that is not valid.

#### Microsoft.SharePoint.Client.Attachment

**TypeId:** {ABD102DE-1731-4BE2-AE7E-3515371CC5C7}

**ShortName:** SP.Attachment

Specifies a [**list item attachment**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934).[<174>](#Appendix_A_174" \o "Product behavior note 174)

##### Properties

###### Scalar Properties

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of a [**list item attachment**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934).

FileName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the file name of the [**list item attachment**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes this [**list item attachment**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934).

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AttachmentCollection

**TypeId:** {F4E86471-7DAB-4B47-B061-50A40E27140E}

**ShortName:** SP.AttachmentCollection

Specifies a collection of [**list item attachments**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934).[<175>](#Appendix_A_175" \o "Product behavior note 175)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Adds the [**attachment**](#gt_5d07b95e-85c9-42c0-9139-ff06b787b459) 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 **ContentStream** property of *parameters* is NULL, or the **FileName** property of *parameters* is NULL or empty. |
| -2147467261 | System.ArgumentNullException | *parameters* is NULL. |

GetByFileName

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

Returns the [**list item attachment**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934) with the specified file name.

**Parameters:**

*fileName:* The specified file name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.AttachmentCreationInformation

**TypeId:** {EDF6309C-8142-4133-921E-4D6AEC35550D}

**ShortName:** SP.AttachmentCreationInformation

Specifies a [**list item attachment**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934).[<176>](#Appendix_A_176" \o "Product behavior note 176)

##### Properties

###### Scalar Properties

ContentStream

**Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

**Accessibility:** Read/Write

The contents of the file as a [**stream**](#gt_f3529cd8-50da-4f36-aa0b-66af455edbb6).

FileName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the file name of the [**list item attachment**](#gt_984a00f3-4cda-436b-88a6-6026ba9dc934).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ServerSettings

**TypeId:** {ADFA7B3E-A27C-4288-9B6C-A8EA51BF082D}

**ShortName:** SP.ServerSettings

Provides methods for obtaining protocol server properties that correspond to different [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb) zones.[<177>](#Appendix_A_177" \o "Product behavior note 177)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetBlockedFileExtensions

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the blocked file extensions for the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:** None

GetGlobalInstalledLanguages

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Language

Returns the installed server languages for the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*compatibilityLevel:* Specifies the major version to request installed server languages for.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

IsSharePointOnline

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

If true the service is a SharePoint Online service; false if otherwise.

**Parameters:** None

###### ObjectPath Methods

GetAlternateUrls

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.AlternateUrl

Returns all [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1)s of the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) along with the corresponding zone information.

**Parameters:** None

#### 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)**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd) requests based on parameters specified by the client.[<178>](#Appendix_A_178" \o "Product behavior note 178)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Invoke

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Specifies that the protocol server SHOULD make an outbound [**Hypertext Transfer Protocol (HTTP)**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd) request using the specified parameters.

**Parameters:**

*requestInfo:* A **WebRequestInfo** (section [3.2.5.174](#Section_2402a141e5b747848bf9182d5bdb1d87)) object that contains the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1), headers and body of the request.

Type: Microsoft.SharePoint.Client.WebRequestInfo

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.WebRequestInfo

**TypeId:** {71AA825D-BC12-422D-A177-D2E63FE68CD9}

**ShortName:** SP.WebRequestInfo

Specifies metadata about a [**Hypertext Transfer Protocol (HTTP)**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd) request.[<179>](#Appendix_A_179" \o "Product behavior note 179)

##### Properties

###### Scalar Properties

Body

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The content of the request, as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 4.3.

Headers

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read/Write

The headers of the request, as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 4.2.

Method

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The [**HTTP method**](#gt_68c4562b-c99d-4e14-8b91-834ffe616e0f) of the request, as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 5.1.1.

It MUST NOT be empty.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The target [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the request.

It MUST be a URL of absolute form. Its length MUST be equal to or less than 255.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.WebResponseInfo

**TypeId:** {73B6054A-AA40-41E4-A34F-5A6F898E6D4F}

**ShortName:** SP.WebResponseInfo

Specifies metadata about a [**Hypertext Transfer Protocol (HTTP)**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd) response.[<180>](#Appendix_A_180" \o "Product behavior note 180)

##### Properties

###### Scalar Properties

Body

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The content of the response, as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 4.3.

Headers

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read/Write

The headers of the response, as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 4.2.

StatusCode

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

The [**Status-Code**](#gt_1bb025f5-d125-45c8-a855-7ac118f99e29) of the response, as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 10.

###### ObjectPath Properties

None.

#### Microsoft.BusinessData.MetadataModel.Entity

**TypeId:** {493FB354-E4A4-4577-B7F4-64BB868C128E}

**ShortName:** SP.BusinessData.Entity

Specifies an [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf) in a [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) application.[<181>](#Appendix_A_181" \o "Product behavior note 181)

##### Properties

###### Scalar Properties

EstimatedInstanceCount

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Specifies the number of expected external [**items**](#gt_91432874-9050-460a-b621-d77b75d31dee) associated with this external content type.

Its value MUST be equal to or greater than 0.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the metadata object.

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

Namespace

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the namespace of the given **Entity** (section [3.2.5.176](#Section_ff7385e3eab641ae92a2a1f0f00b50c1)).

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

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetIdentifierCount

**Return Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Specifies the number of identifiers in an [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf).

**Parameters:** None

Unsubscribe

**Return Type:** None

Calls to the external system indicating that the event notification is no longer required for this entity and event type.

**Parameters:**

*subscription:* The subscription registration information returned as part of the **Subscriber** stereotype call on the external content type.

Type: Microsoft.BusinessData.Runtime.Subscription

It MUST NOT be NULL.

*onBehalfOfUser:* The name or identifier of the user for whom the unsubscribe operation is performed.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*unsubscriberName:* The name of the **EventUnsubscriber** method instance.

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 unsubscribe. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is null. |
| -2147024891 | System.UnauthorizedAccessException | User does not have permissions to unsubscribe. |

###### ObjectPath Methods

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](#Section_b457c0f2a8254a6a94ce6e5f9e378b4c)) that corresponds to the external item that was created.

The **EntityFieldValueDictionary** (section [3.2.5.164](#Section_a78c8e7a5144486eb6d3429ff603c8b4)) instance provided as an input to this method is created from a [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) that corresponds to a [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) of type [**Creator**](#gt_5b81c8fe-25fa-4580-adfb-63e606e17f04).

**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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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 external item. |
| -1 | Microsoft.BusinessData.MetadataModel.InvalidMetadataObjectException | Creator MethodInstances cannot return collections. |
| -1 | System.InvalidOperationException | The **Create** method does not have a return value. A proper **EntityIdentity** object MUST be supplied for the **Create** function. |

FindSpecific

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the identity by calling the given [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) method.

**Parameters:**

*identity:* The given identity.

Type: Microsoft.BusinessData.Runtime.EntityIdentity

It MUST NOT be NULL.

*specificFinderName:* SpecificFinder method name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

*lobSystemInstance:* The [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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 SpecificFinder method available with the given name. |
| -1 | Microsoft.BusinessData.Runtime.ObjectNotFoundException | An external item with the given identity does not exist. |

FindSpecificByBdcId

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) identity by calling the given [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) method.

**Parameters:**

*bdcIdentity:* Unique identity string for external item

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

BdcIdentity is a unique identity string generated by [**Business Connectivity Services (BCS)**](#gt_60bc405d-f067-475b-91e6-673a28e0147f) 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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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 SpecificFinder available with the given name. |
| -1 | Microsoft.BusinessData.Runtime.ObjectNotFoundException | An external item with the given id does not exist. |

FindSpecificDefault

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the identity by calling the default [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) method.

**Parameters:**

*identity:* The given **EntityIdentity** (section [3.2.5.165](#Section_b457c0f2a8254a6a94ce6e5f9e378b4c)).

Type: Microsoft.BusinessData.Runtime.EntityIdentity

It MUST NOT be NULL.

*lobSystemInstance:* The [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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. |

FindSpecificDefaultByBdcId

**Return Type:** Microsoft.BusinessData.Runtime.EntityInstance

Retrieves the external item corresponding to the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) identity by calling the default [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) method.

**Parameters:**

*bdcIdentity:* The given Business Data Connectivity (BDC) identity.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

GetCreatorView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Gets the [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) for the given [**Creator**](#gt_5b81c8fe-25fa-4580-adfb-63e606e17f04) method instance.

**Parameters:**

*methodInstanceName:* [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) name

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

GetDefaultSpecificFinderView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Gets the [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) for the default [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) method.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.BusinessData.MetadataModel.MetadataObjectNotFoundException | Default SpecificFinder cannot be found. |

GetIdentifiers

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.EntityIdentifierCollection

Specifies the identifier parameters of an [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf).

Returns a read only collection of identifiers.

**Parameters:** None

GetLobSystem

**Return Type:** Microsoft.BusinessData.MetadataModel.LobSystem

Specifies [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) for an [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf).

**Parameters:** None

GetSpecificFinderView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Specifies the [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) for the given [**SpecificFinder**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c) method.

**Parameters:**

*specificFinderName:* The name of the SpecificFinder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

GetUpdaterView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Specifies the [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) for the given [**Updater**](#gt_1f74dafd-92d0-4cf8-aa84-903ba9203bed) method.

**Parameters:**

*updaterName:* Updater name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

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)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) external item.

Type: Microsoft.BusinessData.Runtime.EntityInstance

It MUST NOT be NULL.

*associationName:* The association name to use.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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. |

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)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) system.

A protocol client SHOULD use a set of filters to narrow and constrain the set of items returned. Set filters using **FilterCollection** (section [3.2.5.199](#Section_e7ba8327e4d2478ab7097f7c611e8174)) 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**](#gt_e46314dd-7cbd-469f-8fa5-59ec4b9a6f1c).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

*lobSystemInstance:* The [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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. |

GetAssociationView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Specifies the [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) of the association.

**Parameters:**

*associationName:* The name of the association.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

GetFilters

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.FilterCollection

Specifies the list of filters defined for a given [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) name.

**Parameters:**

*methodInstanceName:* MethodInstance name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

Execute

**Return Type:** Microsoft.BusinessData.MetadataModel.MethodExecutionResult

Runs the given method instance against an external [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) instance with the given parameters.

**Parameters:**

*methodInstanceName:* The [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) model for that method.

Type: [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

**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 the Business Data Connectivity (BDC) model but not enumerable. |

GetFinderView

**Return Type:** Microsoft.BusinessData.MetadataModel.EntityView

Specifies the [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) for the given finder method.

**Parameters:**

*methodInstanceName:* finder [**MethodInstance**](#gt_7e1a5d0b-662e-4b9c-b8ba-17b95c46fe52) name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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. |

Subscribe

**Return Type:** Microsoft.BusinessData.Runtime.Subscription

Subscribes the given notification endpoint with the external system to receive notifications.

**Parameters:**

*eventType:* The event type to subscribe.

Type: Microsoft.BusinessData.Runtime.EntityEventType

*notificationCallback:* The details related to the endpoint that will receive notifications in response to this subscription request.

Type: Microsoft.BusinessData.Runtime.NotificationCallback

It MUST NOT be NULL.

*onBehalfOfUser:* The name or id of the user for whom subscription is made.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*subscriberName:* The name of **Subscriber** method instance.

Type: CSOM String

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

*lobSystemInstance:* The external [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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 a subscription. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is null |
| -2147024891 | System.UnauthorizedAccessException | User does not have permissions to create a subscription. |

#### Microsoft.BusinessData.MetadataModel.EntityIdentifier

**TypeId:** {86B6671B-E6E1-4F99-AA9D-D7A3FFBD6C16}

**ShortName:** SP.BusinessData.EntityIdentifier

Defines the properties of an [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf) identifier.[<182>](#Appendix_A_182" \o "Product behavior note 182)

##### Properties

###### Scalar Properties

IdentifierType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the type of this **EntityIdentifier** (section [3.2.5.177](#Section_fec323f811c940aa84d8f0dd7277263e)) as a string value.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the **EntityIdentifier** (section [3.2.5.177](#Section_fec323f811c940aa84d8f0dd7277263e)).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

ContainsLocalizedDisplayName

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether this **EntityIdentifier** (section [3.2.5.177](#Section_fec323f811c940aa84d8f0dd7277263e)) contains a localized display name.

**Parameters:** None

GetDefaultDisplayName

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Specifies the default display name of this **EntityIdentifier** (section [3.2.5.177](#Section_fec323f811c940aa84d8f0dd7277263e)).

**Parameters:** None

GetLocalizedDisplayName

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Specifies the localized display name of this **EntityIdentifier** (section [3.2.5.177](#Section_fec323f811c940aa84d8f0dd7277263e)).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.BusinessData.MetadataModel.InvalidMetadataObjectException | Localized display name for current locale does not exist. |

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.LobSystem

**TypeId:** {84EFF1C0-D351-441F-A57F-F73A0785CCEC}

**ShortName:** SP.BusinessData.LobSystem

Represents an external [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).[<183>](#Appendix_A_183" \o "Product behavior note 183)

##### Properties

###### Scalar Properties

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the external **LobSystem** (section [3.2.5.178](#Section_599a7e9c51d047fb95b39a07775f2e60)).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetLobSystemInstances

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.LobSystemInstanceCollection

Specifies the instances of this external **LobSystem** (section [3.2.5.178](#Section_599a7e9c51d047fb95b39a07775f2e60)).

**Parameters:** None

#### 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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).[<184>](#Appendix_A_184" \o "Product behavior note 184)

##### Properties

###### Scalar Properties

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the external [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) instance.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.TypeDescriptor

**TypeId:** {D981A4B4-5FBD-4C46-9101-5C5E67D4AB3B}

**ShortName:** SP.BusinessData.TypeDescriptor

Describes a data structure in an external system.[<185>](#Appendix_A_185" \o "Product behavior note 185) It represents the data type for a method parameter in the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8).

##### Properties

###### Scalar Properties

ContainsReadOnly

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) or one of its child items represent a read-only data structure.

IsCollection

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the described type represents a collection data structure.

IsReadOnly

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) represents a read-only data structure.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) metadata object.

TypeName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the data type represented by this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

ContainsLocalizedDisplayName

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contains a localized display name.

**Parameters:** None

GetDefaultDisplayName

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Specifies the default display name of this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**Parameters:** None

GetLocalizedDisplayName

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Specifies the localized display name of this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.BusinessData.MetadataModel.InvalidMetadataObjectException | Localized display name for the current locale does not exist. |

IsLeaf

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) contains any child TypeDescriptors.

**Parameters:** None

IsRoot

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether this [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) represents the root of a data structure.

**Parameters:** None

###### ObjectPath Methods

GetChildTypeDescriptors

**Return Type:** Microsoft.BusinessData.MetadataModel.Collections.TypeDescriptorCollection

Specifies the [**TypeDescriptors**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) that correspond to the fields of the represented structure.

**Parameters:** None

GetParentTypeDescriptor

**Return Type:** Microsoft.BusinessData.MetadataModel.TypeDescriptor

Returns the [**TypeDescriptor**](#gt_5ad04fa8-9bbd-4974-bcdf-73d4c987be55) 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. |

#### Microsoft.SharePoint.Client.AppCatalog

**TypeId:** {79CDEE9F-257E-423B-9E94-E6404659F7EA}

**ShortName:** SP.AppCatalog

Provides methods for retrieving installed [**app instances**](#gt_16e39006-3436-4e44-b374-2de11f03544c).[<186>](#Appendix_A_186" \o "Product behavior note 186) All methods in SP.AppCatalog are static.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

IsAppSideloadingEnabled

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Returns "true" if side loading of [**app instances**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is enabled on the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), otherwise returns "false". Side loading allows an app instance to be installed directly from a programming environment, without the need to go through a published catalog.

**Parameters:** None

GetAppPermissionDescriptions

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the permissions requested by the SharePoint app. Returns null for a side-loaded app.

**Parameters:**

*web:* The web where the app is installed.

Type: Microsoft.SharePoint.Client.Web

*appInstance:* The appInstance for the app.

Type: Microsoft.SharePoint.Client.AppInstance

###### ObjectPath Methods

GetAppDetails

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Packaging.AppDetails

Gets the AppDetails for the SPApp that has a host web of web and an appinstanceId of appinstance. If the SPApp has no details such as in the side-loaded case, then null is returned.

**Parameters:**

*web:* The host web where the application is installed.

Type: Microsoft.SharePoint.Client.Web

*appInstance:* The appInstance of the application.

Type: Microsoft.SharePoint.Client.AppInstance

GetAppInstance

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Get an App Instance by the Id returned by the Install operation. If the App instance has any localizable properties (like Title), they will be localized based on the Current thread's CurrentUICulture.

**Parameters:**

*web:* The web that the App Instance is installed to.

Type: Microsoft.SharePoint.Client.Web

*appInstanceId:* The Id of the App Instance.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetAppInstances

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.AppInstance

Gets the [**app instances**](#gt_16e39006-3436-4e44-b374-2de11f03544c) installed in a given [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

**Parameters:**

*web:* The target site.

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

GetDeveloperSiteAppInstancesByIds

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.AppInstance

Gets the details of the [**app instances**](#gt_16e39006-3436-4e44-b374-2de11f03544c) on the specified [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) for the specified app instance identifiers.

**Parameters:**

*site:* The site collection for which the app instance details will be returned.

Type: Microsoft.SharePoint.Client.Site

It MUST NOT be NULL.

It MUST be a Developer Site.

*appInstanceIds:* An array of app instance identifiers for which app instance details have to be retrieved.

Type: CSOM array of [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

It MUST NOT be NULL. It MUST have at most 100 elements.

#### Microsoft.SharePoint.Client.AppInstance

**TypeId:** {211A55DF-058B-4917-AC93-2B5E08B1A9FD}

**ShortName:** SP.AppInstance

Specifies an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).[<187>](#Appendix_A_187" \o "Product behavior note 187)

##### Properties

###### Scalar Properties

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

AppWebFullUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The absolute [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) created during the installation of this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

InError

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) 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.

RemoteAppUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the base [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the remote system deployed during the installation of this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that contains the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) where this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is installed.

Status

**Type:** Microsoft.SharePoint.Client.AppInstanceStatus

**Accessibility:** Read Only

The status of the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) as defined in section [3.2.5.238](#Section_1dba2ba20ec2416d9f229b60291f8a8a).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the title of the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c). The title can change with use, and SHOULD NOT be used as an identifier. Use **Id** (section [3.2.5.182.1.1.1](#Section_90e48087e06d4c98855e3fd0a07815a1)) instead.

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) where this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is installed.

StartPage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The start page [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

AppPrincipalId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the identifier of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

SettingsPageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) to configure the settings of this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

ImageFallbackUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the fallback image.

ImageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**image**](#gt_d6b55d1e-aea6-4b7e-a23d-c0de845e0b50) relative to the layouts folder of the site where the app is installed.

PackageFingerprint

**Type:** [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

**Accessibility:** Read Only

Gets the package fingerprint.

ProductId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Gets the [**App instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c)'s Product Id.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Uninstall

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Uninstalls the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

**Parameters:** None

CancelAllJobs

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Cancels all executing lifecycle jobs for this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c). If there is at least one job to cancel, this operation returns true.

**Parameters:** None

RetryAllJobs

**Return Type:** None

Restarts all existing lifecycle jobs for this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

**Parameters:** None

Upgrade

**Return Type:** None

Uploads a new version of the [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) to the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) and upgrades this app instance to that version. The site MUST be enabled for remote development.

**Parameters:**

*appPackageStream:* Stream of the app package.

Type: [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

Install

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Installs the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

**Parameters:** None

RetrieveAppDatabaseConnectionString

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the database connection string if the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) has an auto-deployed database, otherwise returns NULL.

**Parameters:** None

GetAppDatabaseConnectionString

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

The Connection string for the app database.

**Parameters:** None

Recycle

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Creates a job that sends the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) to the recycle bin, where it will stay until restored by <see cref="SPAppInstance.Restore" />, or uninstalled at the end of the retention period.

Returns the job Id of the recycle job.

**Parameters:** None

Restore

**Return Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

Creates a job that restores the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) from the recycle bin to the Installed state.

Returns the job Id of the restore job.

**Parameters:** None

###### ObjectPath Methods

GetPreviousAppVersion

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

If the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) was upgraded, it MUST return the version of the [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) (as specified in section [3.2.5.237](#Section_622ede5ef7a148f69944286ba0a9f4e8)) before upgrade. Else it MUST return NULL.

**Parameters:** None

GetErrorDetails

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.AppInstanceErrorDetails

Returns the latest lifecycle error details for this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) as specified in section [3.2.5.256](#Section_f5967adc36cb42768e17149b68a29eec).

**Parameters:** None

GetAppIcon

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Packaging.AppIconInfo

Gets the SPAppIcon for the app. Returns SPAppIcon for the app.

**Parameters:**

*hostWeb:* The app host web.

Type: Microsoft.SharePoint.Client.Web

*appinstanceId:* The [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*packageFingerprint:* The [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) fingerprint.

Type: [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

#### 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](#Section_2f237f7fd7bd4330b96212e6c04d8c41)) method.[<188>](#Appendix_A_188" \o "Product behavior note 188)

##### Properties

###### Scalar Properties

ChangeToken

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a string that contains the [**change token**](#gt_70bf988c-6991-442c-850c-fb6c5ab7f5bf) for the request.

Contains

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a string representation of the [**XML element**](#gt_a364f92c-0374-4568-b7f8-40bd74437dd5) that defines custom filtering for the query. See [[MS-LISTSWS]](%5bMS-LISTSWS%5d.pdf#Section_30b364cc38374e839ce81963292e2ee5) section 2.2.4.3.

Query

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies which records from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) are to be returned and the order in which they will be returned. See section 2.2 in [[MS-WSSCAML]](%5bMS-WSSCAML%5d.pdf#Section_8d6156fd646842949594644a946ed6a6).

QueryOptions

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies various options for modifying the **Query** (section [3.2.5.183.1.1.3](#Section_a482aede204a4f8683f303a03391cb4b)). See [[MS-LISTSWS]](%5bMS-LISTSWS%5d.pdf#Section_30b364cc38374e839ce81963292e2ee5) section [2.2.4.4](%5bMS-LISTSWS%5d.docx#Section_fa650bdec79b4a2abb5dc43e74166322).

ViewName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) for the [**view**](#gt_3f793b0b-9509-4df0-89f9-92f07954beb8).

RowLimit

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a limit for the number of items in the [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2) that are returned per page.

ViewFields

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the names of the [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) to be included in the [**query**](#gt_37fbc661-f744-48fa-9d8e-f34513cab9c2) result.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FieldCreationInformation

**TypeId:** {46C21C03-8E93-4E5A-BF90-228366397C9A}

**ShortName:** SP.FieldCreationInformation

Specifies the metadata of a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that is specified in [[MS-WSSTS]](%5bMS-WSSTS%5d.pdf#Section_52b95801d55f4d63a1c3b4e857c43b31) section 2.1.2.9.[<189>](#Appendix_A_189" \o "Product behavior note 189)

##### Properties

###### Scalar Properties

Choices

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies values that are available for selection in the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

FieldTypeKind

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

IsCompactName

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

This value is "true" to compact the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) name to eight characters; otherwise, "false".

LookupFieldName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the other data source when creating a [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7).

LookupListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

A CSOM GUID that specifies the target list for the lookup [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

LookupWebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

Specifies the identifier of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that is the source for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) value.

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) requires a value. If the field (2) requires a value, this value MUST be set to "true". Otherwise, it MUST be set to "false".

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**display name**](#gt_bbb09154-8d26-498e-b05e-f649e5a43700) of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

It MUST NOT be NULL.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.FieldGeolocation

**TypeId:** {D5A367F2-3B74-4984-AB50-9A700883C90B}

**ShortName:** SP.FieldGeolocation

Specifies a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that contains geographical location values.[<190>](#Appendix_A_190" \o "Product behavior note 190)

The SchemaXmlWithResourceTokens property is not included in the [**default scalar property set**](#gt_0b609413-e139-406f-8078-46a664d6b434) for this type.

##### Properties

###### Scalar Properties

CanBeDeleted

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.CanBeDeleted**, as specified in section [3.2.5.37.1.1.1](#Section_013dbc622f334a159ff7ccff98161004).

DefaultValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.DefaultValue**, as specified in section [3.2.5.37.1.1.2](#Section_b80462d81ffe440b9bd0a5454dd46020).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Description**, as specified in section [3.2.5.37.1.1.3](#Section_31918128a28942d3bed74acbb3fb5d93).

Direction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Direction**, as specified in section [3.2.5.37.1.1.4](#Section_f9157375c1e142f383b623122ff72613).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed to a value other than "none," and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

EnforceUniqueValues

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.EnforceUniqueValues**, as specified in section [3.2.5.37.1.1.5](#Section_fb2231313f8d4590857da334efa05f4b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | The [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) has an external data source and is trying to set [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to "true". |

FieldTypeKind

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

**Accessibility:** Read/Write

Specifies the type of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

See **Microsoft.SharePoint.Client.Field.FieldTypeKind**, as specified in section [3.2.5.37.1.1.6](#Section_8dd6233e7e0441629a2f0ba36b5a62c1).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Adding [**unique column constraints**](#gt_50f34739-19f5-482a-a800-f3ce5671eda5) to the field (2) where the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68) and **FieldTypeKind** is modified. |

Filterable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Filterable**, as specified in section [3.2.5.37.1.1.7](#Section_778b57b8e331400e8dc0c10cee012068).

FromBaseType

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) derives from a base field type.

Group

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Group**, as specified in section [3.2.5.37.1.1.9](#Section_51afc945e22c4c2582f7ce2116fa7634).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an external list. |

Hidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Hidden**, as specified in section [3.2.5.37.1.1.10](#Section_48300d4bafb64eeabc8c04ebcdd386a2).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Id**, as specified in section [3.2.5.37.1.1.11](#Section_555e2717059949f3afb00db201863bce).

InternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.InternalName**, as specified in section [3.2.5.37.1.1.12](#Section_7b685f9a26da4415ac3cd2e26be4654e).

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

ReadOnlyField

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ReadOnlyField**, as specified in section [3.2.5.37.1.1.13](#Section_6e6b5174719c4c10b5a565cca46e6543).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

**See Microsoft.SharePoint.Client.Field.Required**, as specified in section [3.2.5.37.1.1.14](#Section_b6b228d2364b419682dae4c72cfdbc9b).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | This [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) belongs to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that has an external data source and **Required** is set to "true". |

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.SchemaXml**, as specified in section [3.2.5.37.1.1.15](#Section_a002eae2fa9c44e79c993419974fa76b).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type as defined in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) 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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Scope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Scope**, as specified in section [3.2.5.37.1.1.16](#Section_fa419f3f350b4801b1685be9f906d771).

Sealed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sealed**, as specified in section [3.2.5.37.1.1.17](#Section_f3d8bf40293a42f9b4d28426acac7ae3).

Sortable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.Sortable**, as specified in section [3.2.5.37.1.1.18](#Section_5a15146c73494a648d03503c8273b5c8).

StaticName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.StaticName**, as specified in section [3.2.5.37.1.1.19](#Section_44e72f3ca6194deebfe497e43535c267).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.NotSupportedException | Value is changed, and the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.Title**, as specified in section [3.2.5.37.1.1.20](#Section_5c48f43f198d475d9e5b0cc83a5d5e3f).

TypeAsString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

**See Microsoft.SharePoint.Client.Field.TypeAsString**, as specified in section [3.2.5.37.1.1.21](#Section_564811f76e284820ba60d2ed1d87dc0f).

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**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is an [**external list**](#gt_0803e7df-8941-47c6-ac94-9d2f224c6f68). |

TypeDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeDisplayName**, as specified in section [3.2.5.37.1.1.22](#Section_548dbe3bd33c41c9af2033f6893fc350).

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

TypeShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

See **Microsoft.SharePoint.Client.Field.TypeShortDescription**, as specified in section [3.2.5.37.1.1.23](#Section_d7933e5c3f544d19b8dbe1c07693397f).

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

ValidationFormula

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationFormula**, as specified in section [3.2.5.37.1.1.24](#Section_293fd950e4e14e96867e8da1bcf43a46).

ValidationMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

See **Microsoft.SharePoint.Client.Field.ValidationMessage**, as specified in section [3.2.5.37.1.1.25](#Section_ced34e6796b0456899dbb2ab7302bc19).

Its length MUST be equal to or less than 1024.

JSLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets the name of an external ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)) file containing any client-rendering logic for fields of this type

EntityPropertyName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the entity property of this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) entity that uses this field (2).

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

Indexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a Boolean value that specifies whether the field is indexed.

SchemaXmlWithResourceTokens

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the unlocalized schema XML for this [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

AutoIndexed

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Gets or sets a Boolean value that specifies whether the field is auto-indexed. True to specify that the field is auto-indexed; otherwise, false.

###### ObjectPath Properties

DescriptionResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the Description property for a field.

TitleResource

**Type:** Microsoft.SharePoint.Client.UserResource

**Accessibility:** Read Only

Gets the resource object corresponding to the Title property for a field.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) from the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf), from the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), or from the [**content types**](#gt_fc6992e5-543f-453b-871a-6b5c6cdd040d) within the list.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | System.InvalidOperationException | **CanBeDeleted** is "false". |

SetShowInDisplayForm

**Return Type:** None

Sets the value of the **ShowInDisplayForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the display form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInEditForm

**Return Type:** None

Sets the value of the **ShowInEditForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the edit form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

SetShowInNewForm

**Return Type:** None

Sets the value of the **ShowInNewForm** property for this field.

**Parameters:**

*value:* A Boolean value that indicates whether this field is shown in the new form.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Update

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

UpdateAndPushChanges

**Return Type:** None

Commits changed properties of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and propagates changes to all [**lists**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that use the field (2).

**Parameters:**

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

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2130246331 | Microsoft.SharePoint.SPException | Type of the field (2) is changed for an [**indexed field**](#gt_df43c57b-3a34-40a2-88d9-ebcbc455eb9d). The field type of indexed fields cannot be changed. |
| -2130246238 | Microsoft.SharePoint.SPException | Field (2) is set to not be an indexed field, and **EnforceUniqueValues** is "true". |
| -2130246236 | Microsoft.SharePoint.SPException | Type of the field (2) is being changed and **EnforceUniqueValues** of thefield (2) is "true". |

ValidateSetValue

**Return Type:** None

Validates and sets the value of the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) 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**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FieldGeolocationValue

**TypeId:** {97650AFF-7E7B-44BE-AC6E-D559F7F897A2}

**ShortName:** SP.FieldGeolocationValue

Specifies altitude, latitude, longitude and measure values for **FieldGeolocation** (section [3.2.5.185](#Section_29441872f43e48ac84c2760984dddc10)).[<191>](#Appendix_A_191" \o "Product behavior note 191)

##### Properties

###### Scalar Properties

Altitude

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

Specifies the altitude value for **FieldGeolocation** (section [3.2.5.185](#Section_29441872f43e48ac84c2760984dddc10)). The semantics of the altitude value are user-defined. This value will not be used in any out of the box calculations.

Latitude

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

Specifies the latitude value for **FieldGeolocation** (section [3.2.5.185](#Section_29441872f43e48ac84c2760984dddc10)).

Longitude

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

Specifies the longitude value for **FieldGeolocation** (section [3.2.5.185](#Section_29441872f43e48ac84c2760984dddc10)).

Measure

**Type:** [**CSOM Double**](#gt_7b3d4592-1127-459d-99bd-d9ed65860044)

**Accessibility:** Read/Write

Specifies the measure value for **FieldGeolocation** (section [3.2.5.185](#Section_29441872f43e48ac84c2760984dddc10)). The semantics of the measure value are user-defined. This value will not be used in any out-of-the-box calculations.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.Sharing.DocumentSharingManager

**TypeId:** {10C23C0E-CEAD-4F15-9DEB-A0F1D7507495}

**ShortName:** SP.Sharing.DocumentSharingManager

Specifies [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) sharing related methods.[<192>](#Appendix_A_192" \o "Product behavior note 192)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

UpdateDocumentSharingInfo

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Sharing.UserSharingResult

This method allows a caller with the 'ManagePermission' permission to update sharing information about a [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) to enable document sharing with a set of users. It returns an array of **UserSharingResult** (section [3.2.5.190](#Section_efb7052d05394b8d95624c6f8541601d)) elements where each element contains the sharing status for each user.

**Parameters:**

*resourceAddress:* A [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) that points to a securable object, which can be a document, [**folder**](#gt_6afebb3e-5358-4ab8-b0fc-fcc8de47fcc1) or the [**root folder**](#gt_7caaf21a-bb6c-4d5b-9768-eccac5a8833f) of a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*userRoleAssignments:* An array of recipients and assigned roles on the securable object pointed to by the *resourceAddress* parameter.

Type: CSOM array of Microsoft.SharePoint.Client.Sharing.UserRoleAssignment

*validateExistingPermissions:* A Boolean flag indicating how to honor a requested permission for a user. If this value is "true", the protocol server will not grant the requested permission if a user already has sufficient permissions, and if this value is "false", the protocol server will grant the requested permission whether or not a user already has the same or more permissions. This parameter is applicable only when the parameter *additiveMode* is set to true.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*additiveMode:* A Boolean flag indicating whether the permission setting uses the additive or strict mode. If this value is "true", the permission setting uses the additive mode, which means that the specified permission will be added to the user's current list of permissions if it is not there already, and if this value is "false", the permission setting uses the strict mode, which means that the specified permission will replace the user's current permissions.

Type: CSOM Boolean

*sendServerManagedNotification:* A [**Boolean**](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2) 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 the 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

*propagateAcl:* A flag to determine if permissions SHOULD be pushed to items with unique permission.

Type: CSOM Boolean

IsDocumentSharingEnabled

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether a [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) sharing is enabled on a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

**Parameters:**

*list:* The document library in which to check if document sharing is enabled.

Type: Microsoft.SharePoint.Client.List

CanMemberShare

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Specifies whether the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) can do member sharing.

**Parameters:**

*list:* The list to check member sharing.

Type: Microsoft.SharePoint.Client.List

RemoveItemsFromSharedWithMeView

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Sharing.SharedWithMeViewItemRemovalResult

Removes an item so that it no longer shows in the current user's 'Shared With Me' view. However, this does not remove the user's actual permissions to the item. Up to 200 items may be provided in a single call. Returns a list of results indicating whether the items were successfully removed. The length of this array will match the length of the *itemUrls* array that was provided.

**Parameters:**

*itemUrls:* A list of absolute URLs of the items to be removed from the view. These items may belong to any site or site collection in the tenant.

Type: CSOM array of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

GetRoleDefinition

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

This method returns a role definition in the current web that is associated with a given **Role** (section [3.2.5.188](#Section_33f86c6df1514354acca831d2c80907f)) value.

**Parameters:**

*role:* A **Role** value for which to obtain the associated role definition object.

Type: Microsoft.SharePoint.Client.Sharing.Role

#### 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**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) in a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).[<193>](#Appendix_A_193" \o "Product behavior note 193)

##### Field Values

###### None

**Value:** 0

The user does not have a permission to share a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

###### View

**Value:** 1

The user can only read a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

###### Edit

**Value:** 2

The user can edit or read a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff), but cannot delete it.

###### Owner

**Value:** 3

The user is an owner of a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) and can manage permissions, and edit, read or delete the object.

#### Microsoft.SharePoint.Client.Sharing.UserRoleAssignment

**TypeId:** {74485063-E2B5-424B-950C-4B62E816E31F}

**ShortName:** SP.Sharing.UserRoleAssignment

Specifies a user and a [**role**](#gt_8b0f612e-1393-4768-981f-23b40e3f9c28) that is associated with the user.[<194>](#Appendix_A_194" \o "Product behavior note 194)

##### Properties

###### Scalar Properties

Role

**Type:** Microsoft.SharePoint.Client.Sharing.Role

**Accessibility:** Read/Write

Specifies a **Role** (section [3.2.5.188](#Section_33f86c6df1514354acca831d2c80907f)) that is assigned to a user.

UserId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the identifier of a user, which can be in the format of an email address or a login identifier.

###### ObjectPath Properties

None.

#### 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 [3.2.5.187.2.1.1](#Section_fad1d6ca77e942fa93b373d7747fce18)) returns.[<195>](#Appendix_A_195" \o "Product behavior note 195)

##### Properties

###### Scalar Properties

AllowedRoles

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Sharing.Role

**Accessibility:** Read Only

Specifies a set of [**roles**](#gt_8b0f612e-1393-4768-981f-23b40e3f9c28) that can be assigned to the user.

CurrentRole

**Type:** Microsoft.SharePoint.Client.Sharing.Role

**Accessibility:** Read Only

Specifies the [**role**](#gt_8b0f612e-1393-4768-981f-23b40e3f9c28) that the user is currently assigned to.

IsUserKnown

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**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.

Status

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**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.

User

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the identifier of a user.

Message

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a message string that explains the reason when the **Status** (section [3.2.5.190.1.1.4](#Section_b76f02ba2aa344f392ecca70206f3687)) property is "false".

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the display name of the user.

Email

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the user email.

InvitationLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the invitation link.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.WebInfoCreationInformation

**TypeId:** {5143CF01-79B3-425C-96B2-6E8B34A45D03}

**ShortName:** SP.WebInfoCreationInformation

Specifies metadata about [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) creation.[<196>](#Appendix_A_196" \o "Product behavior note 196)

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the description for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Language

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read/Write

Specifies the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) for the language that is used on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL. Its length MUST be equal to or less than 255.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

It MUST NOT be NULL.

UseUniquePermissions

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) inherits permissions from its parent.

WebTemplate

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) that is used to create the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.WebInformation

**TypeId:** {F847686B-8E42-401C-88E4-B5ED4261A788}

**ShortName:** SP.WebInformation

Specifies metadata about a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<197>](#Appendix_A_197" \o "Product behavior note 197)

##### Properties

###### Scalar Properties

Created

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies when the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) was created.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the description for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Language

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read Only

Specifies the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) for the language that is used on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

LastItemModifiedDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies when an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) was last modified in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the title for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Its length MUST be equal to or less than 255.

WebTemplateId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the identifier of the [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) that was used to create the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

Configuration

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read Only

Specifies the identifier (ID) of the [**site definition configuration**](#gt_78df8bf2-add4-419f-bf7d-9cae711d825c) that was used to create the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

WebTemplate

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**site template**](#gt_c215191f-388e-4b56-b537-505a5c635745) that was used to create the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.WebInformationCollection

**TypeId:** {FDDC4EE9-DC2E-444E-9D02-664C255DA6F1}

**ShortName:** SP.WebInformationCollection

Specifies a collection of objects containing metadata about a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<198>](#Appendix_A_198" \o "Product behavior note 198)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Creates a new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) and adds it to this collection of sites.

**Parameters:**

*parameters:* The properties for the new site.

Type: Microsoft.SharePoint.Client.WebInfoCreationInformation

It MUST NOT be NULL.

GetById

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

Returns an **SP.WebInformation** (section [3.2.5.192](#Section_56054b895c3d4895898c11a97bb2b398)) object that contains metadata about a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) specified by the identifier of the site.

**Parameters:**

*id:* Specifies the identifier of site.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

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 *id* does not exist. |
| -2147024891 | System.UnauthorizedAccessException | The user does not have permissions to retrieve the SP.WebInformation. |

#### Microsoft.SharePoint.Client.XmlSchemaFieldCreationInformation

**TypeId:** {27B11DE3-188C-43B6-A3AC-E7123E134DB7}

**ShortName:** SP.XmlSchemaFieldCreationInformation

Specifies metadata about a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).[<199>](#Appendix_A_199" \o "Product behavior note 199)

##### Properties

###### Scalar Properties

Options

**Type:** Microsoft.SharePoint.Client.AddFieldOptions

**Accessibility:** Read/Write

Specifies the control settings that are used while adding a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

SchemaXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the schema that defines the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

It MUST be NULL, empty, or an [**XML fragment**](#gt_775c2c6d-1ce7-49c7-838b-5fa0dcb7ee4d) that conforms to the **FieldDefinition** type as defined in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.8.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.7.3.3.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListItemEntityCollection

**TypeId:** {FF83E272-F05F-4215-93E2-2C6DF20EC8C7}

**ShortName:** SP.ListItemEntityCollection

List item entity set.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetById

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

Get list item by id.

**Parameters:**

*itemId:* Specifies the identifier of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

#### Microsoft.SharePoint.Client.ThemeInfo

**TypeId:** {1E0A65DD-0C5F-4D2C-AB41-A74312709124}

**ShortName:** SP.ThemeInfo

Specifies a [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) for a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<200>](#Appendix_A_200" \o "Product behavior note 200)

##### Properties

###### Scalar Properties

AccessibleDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the accessible description for this [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8).

ThemeBackgroundImageUri

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) of the background image for this [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetThemeFontByName

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the name of the [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) font for the specified font slot name and [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6). 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**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

GetThemeShadeByName

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) color code for the given theme color token.

**Parameters:**

*name:* The color token specifying a particular color slot in the theme.

Type: CSOM String

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.InformationRightsManagementSettings

**TypeId:** {DC0556DE-B544-4702-B2DC-9886AC31B25F}

**ShortName:** SP.InformationRightsManagementSettings

A collection of [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings for a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).[<201>](#Appendix_A_201" \o "Product behavior note 201)

##### Properties

###### Scalar Properties

AllowPrint

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a user can print the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

AllowScript

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a user can run scripts on the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

AllowWriteCopy

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a user can write in a copy of the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

DocumentAccessExpireDays

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the number of days after which the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) will expire.

DocumentLibraryProtectionExpireDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read/Write

Specifies the date on which the [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) protection of this [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) will stop.

EnableDocumentAccessExpire

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) will expire.

EnableGroupProtection

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the permission of the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) is applicable to a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

EnableLicenseCacheExpire

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether a user MUST verify his or her credentials after certain intervals.

GroupName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) name (email address) that the permission is also applicable to.

LicenseCacheExpireDays

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the number of days that the [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) license can be cached by the application to open the downloaded document. When these elapse, the application will connect to the **IRM** server to validate the license.

PolicyDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the permission [**policy**](#gt_52323544-69e0-4172-8921-2711cbda988e) description.

PolicyTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the permission [**policy**](#gt_52323544-69e0-4172-8921-2711cbda988e) title.

EnableDocumentBrowserPublishingView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether publishing view is enabled in the [**Office Add-in**](#gt_8212530d-483d-4917-88bf-ab412b3dc178). The default value is false.

DisableDocumentBrowserView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether to block the [**Office Add-in**](#gt_8212530d-483d-4917-88bf-ab412b3dc178) from showing this document. The default value is false.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Reset

**Return Type:** None

Resets all the properties to default value.

**Parameters:** None

Update

**Return Type:** None

Updates the [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) with changes that are made to the settings.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.Collections.EntityInstanceCollection

**TypeId:** {973B9891-3BEF-4117-9E6F-90BDD6746D03}

**ShortName:** SP.BusinessData.Collections.EntityInstanceCollection

Specifies a read only collection of [**EntityInstances**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b).[<202>](#Appendix_A_202" \o "Product behavior note 202)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.Collections.FilterCollection

**TypeId:** {508617EA-E4BD-4EC7-817C-B8335C6384A2}

**ShortName:** SP.BusinessData.Collections.FilterCollection

Specifies a read only collection of filters.[<203>](#Appendix_A_203" \o "Product behavior note 203)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

SetFilterValue

**Return Type:** None

Sets a value for a filter in the **FilterCollection** (section [3.2.5.199](#Section_e7ba8327e4d2478ab7097f7c611e8174)).

**Parameters:**

*inputFilterName:* Filter name to which the value is set.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

*valueIndex:* The index in the filter value array for the value.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

Its value MUST be equal to or greater than 0.

*value:* New value for the filter.

Type: [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.BusinessData.Infrastructure.AccessDeniedException | User does not have permissions to modify the filter value. |
| -1 | Microsoft.BusinessData.Runtime.ObjectNotFoundException | A filter item with the given name does not exist. |
| -2147467261 | System.ArgumentNullException | The *inputFilterName* is **null** or empty. |
| -2146233086 | System.ArgumentOutOfRangeException | The 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. |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ContextWebInformation

**TypeId:** {DF0C42FE-FC26-4D81-A32E-A40090D1ACB7}

**ShortName:** SP.ContextWebInformation

Specifies metadata about a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<204>](#Appendix_A_204" \o "Product behavior note 204)

##### Properties

###### Scalar Properties

FormDigestTimeoutSeconds

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the amount of time in seconds before security validation expires.

FormDigestValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a valid [**form digest**](#gt_09ec38e8-f761-47c2-81db-bc62361e25d8) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

LibraryVersion

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the library version.

SiteFullUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the URL of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that contains the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

SupportedSchemaVersions

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the supported client-side object model (CSOM) request [**schema version**](#gt_b8132905-97e5-44db-81df-210923b770e7).

WebFullUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the URL of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.EventReceiverDefinition

**TypeId:** {A8D3515C-1135-4FFF-95A6-4E5E5FFF4ADC}

**ShortName:** SP.EventReceiverDefinition

Abstract base class that defines general properties of an [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).[<205>](#Appendix_A_205" \o "Product behavior note 205)

##### Properties

###### Scalar Properties

EventType

**Type:** Microsoft.SharePoint.Client.EventReceiverType

**Accessibility:** Read Only

Specifies the type of event for the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) (section [3.2.5.205](#Section_ec27ba6d4f1d47f5a5b0b687e4f916a8)).

ReceiverAssembly

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**strong name**](#gt_37eec90d-7c36-45d1-8361-bf05f4d89ee2) of the assembly that is used for the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).

ReceiverClass

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a string that represents the class that is used for receiving events.

ReceiverName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).

ReceiverUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of a web service that is used as an [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).

SequenceNumber

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies an integer that represents the relative sequence of the event.

Synchronization

**Type:** Microsoft.SharePoint.Client.EventReceiverSynchronization

**Accessibility:** Read Only

Specifies the synchronization of actions of this [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) (section [3.2.5.204](#Section_d205dbe3ce214fa09a328a0e60e2516d)).

ReceiverId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) definition.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

DeleteObject

**Return Type:** None

Deletes an [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) definition.

**Parameters:** None

Update

**Return Type:** None

Updates the data associated with the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) registration.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.EventReceiverDefinitionCollection

**TypeId:** {8AEF5B03-F05E-46E9-9537-6C3AAD574B7A}

**ShortName:** SP.EventReceiverDefinitionCollection

Represents a collection of SPEventReceiverDefinition objects that are used to enumerate the list of registered event receivers for Windows SharePoint Services objects that can have events.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

Add

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

Creates an event receiver definition in the collection that is based on the specified event receiver creation information.

**Parameters:**

*eventReceiverCreationInformation:* The event receiver creation information from which to create the event receiver definition in the collection.

Type: Microsoft.SharePoint.Client.EventReceiverDefinitionCreationInformation

GetById

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

Returns the event receiver with the specified identifier.

**Parameters:**

*eventReceiverId:* The identifier of the event receiver.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### Microsoft.SharePoint.Client.EventReceiverDefinitionCreationInformation

**TypeId:** {2C15382F-B6E4-41F6-8616-4CBE0080A5DE}

**ShortName:** SP.EventReceiverDefinitionCreationInformation

Specifies [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) creation information.[<206>](#Appendix_A_206" \o "Product behavior note 206)

##### Properties

###### Scalar Properties

EventType

**Type:** Microsoft.SharePoint.Client.EventReceiverType

**Accessibility:** Read/Write

Specifies the type of event as specified by **EventReceiverType** (section [3.2.5.205](#Section_ec27ba6d4f1d47f5a5b0b687e4f916a8)).

ReceiverAssembly

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**strong name**](#gt_37eec90d-7c36-45d1-8361-bf05f4d89ee2) of the assembly that is used for receiving events.

ReceiverClass

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a string that represents the class that is used for receiving events.

ReceiverName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).

ReceiverUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of a web service that is used for receiving events.

SequenceNumber

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies an integer that represents the relative sequence of the event.

Synchronization

**Type:** Microsoft.SharePoint.Client.EventReceiverSynchronization

**Accessibility:** Read/Write

Specifies the execution synchronization of the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.EventReceiverSynchronization

**ShortName:** SP.EventReceiverSynchronization

**Flag:** false

Specifies the synchronization state value for the specified [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).[<207>](#Appendix_A_207" \o "Product behavior note 207)

##### Field Values

###### DefaultSynchronization

**Value:** 0

Specifies to run the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) synchronously, as specified in section [3.2.5.204.1.2](#Section_fd9bdf114fef4427b31118e16683403b), if it is a Before event. Specifies to run the event receiver asynchronously, as specified in section [3.2.5.204.1.3](#Section_9a627e121c3448dba87b699c22d4c20d), if it is an After event.

###### Synchronous

**Value:** 1

Specifies that the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) is to run synchronously, or immediately.

###### Asynchronous

**Value:** 2

Specifies that the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) is to run asynchronously, or under a timer service.

#### Microsoft.SharePoint.Client.EventReceiverType

**ShortName:** SP.EventReceiverType

**Flag:** false

Specifies the type of event that is handled by the [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f).[<208>](#Appendix_A_208" \o "Product behavior note 208)

##### Field Values

###### InvalidReceiver

**Value:** -1

Indicates that an invalid [**event receiver**](#gt_b40bf794-34a8-4719-86be-04133875ae0f) type has been specified.

###### ItemAdding

**Value:** 1

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) is added.

###### ItemUpdating

**Value:** 2

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) is updated.

###### ItemDeleting

**Value:** 3

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) is deleted.

###### ItemCheckingIn

**Value:** 4

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) is checked in.

###### ItemCheckingOut

**Value:** 5

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) is checked out.

###### ItemUncheckingOut

**Value:** 6

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a checkout of an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) is reversed.

###### ItemAttachmentAdding

**Value:** 7

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**attachment**](#gt_5d07b95e-85c9-42c0-9139-ff06b787b459) is added to the [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

###### ItemAttachmentDeleting

**Value:** 8

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**attachment**](#gt_5d07b95e-85c9-42c0-9139-ff06b787b459) is removed from the [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

###### ItemFileMoving

**Value:** 9

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) is moved.

###### ItemVersionDeleting

**Value:** 11

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) version is deleted.

###### FieldAdding

**Value:** 101

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is added to a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### FieldUpdating

**Value:** 102

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is updated.

###### FieldDeleting

**Value:** 103

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) is deleted from a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

###### ListAdding

**Value:** 104

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is created.

###### ListDeleting

**Value:** 105

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) is deleted.

###### SiteDeleting

**Value:** 201

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) in deleted.

###### WebDeleting

**Value:** 202

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) is deleted.

###### WebMoving

**Value:** 203

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) is changed.

###### WebAdding

**Value:** 204

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) is created.

###### GroupAdding

**Value:** 301

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) is added.

###### GroupUpdating

**Value:** 302

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) is updated.

###### GroupDeleting

**Value:** 303

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) is deleted.

###### GroupUserAdding

**Value:** 304

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a user is added to a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a).

###### GroupUserDeleting

**Value:** 305

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a user is deleted from a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a).

###### RoleDefinitionAdding

**Value:** 306

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) is added.

###### RoleDefinitionUpdating

**Value:** 307

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) is updated.

###### RoleDefinitionDeleting

**Value:** 308

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) is deleted.

###### RoleAssignmentAdding

**Value:** 309

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) is added.

###### RoleAssignmentDeleting

**Value:** 310

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) is deleted.

###### InheritanceBreaking

**Value:** 311

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before an inheritance is broken.

###### WorkflowStarting

**Value:** 501

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before a [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) starts running.

###### ItemAdded

**Value:** 10001

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) has been added.

###### ItemUpdated

**Value:** 10002

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) has been updated.

###### ItemDeleted

**Value:** 10003

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) has been deleted.

###### ItemCheckedIn

**Value:** 10004

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) has been checked in.

###### ItemCheckedOut

**Value:** 10005

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) has been checked out.

###### ItemUncheckedOut

**Value:** 10006

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a check-out for an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) has been reversed.

###### ItemAttachmentAdded

**Value:** 10007

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**attachment**](#gt_5d07b95e-85c9-42c0-9139-ff06b787b459) has been added to an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

###### ItemAttachmentDeleted

**Value:** 10008

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**attachment**](#gt_5d07b95e-85c9-42c0-9139-ff06b787b459) has been removed from an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee).

###### ItemFileMoved

**Value:** 10009

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) has been moved.

###### ItemFileConverted

**Value:** 10010

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) has been transformed from one type to another.

###### ItemVersionDeleted

**Value:** 10011

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a version of an [**item**](#gt_91432874-9050-460a-b621-d77b75d31dee) of a [**file**](#gt_a04c146a-de3b-4e4b-829f-a9e772f3fe25) is deleted.

###### FieldAdded

**Value:** 10101

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) has been added.

###### FieldUpdated

**Value:** 10102

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) has been updated.

###### FieldDeleted

**Value:** 10103

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) has been deleted.

###### ListAdded

**Value:** 10104

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) has been created.

###### ListDeleted

**Value:** 10105

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) has been deleted.

###### SiteDeleted

**Value:** 10201

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) has been deleted.

###### WebDeleted

**Value:** 10202

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) has been deleted.

###### WebMoved

**Value:** 10203

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) has been changed.

###### WebProvisioned

**Value:** 10204

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a new [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) has been created, but before that new site is provisioned.

###### GroupAdded

**Value:** 10301

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) has been added.

###### GroupUpdated

**Value:** 10302

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) has been updated.

###### GroupDeleted

**Value:** 10303

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) has been deleted.

###### GroupUserAdded

**Value:** 10304

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a user is added to a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a).

###### GroupUserDeleted

**Value:** 10305

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a user is deleted from a [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a).

###### RoleDefinitionAdded

**Value:** 10306

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) is added.

###### RoleDefinitionUpdated

**Value:** 10307

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) is updated.

###### RoleDefinitionDeleted

**Value:** 10308

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**role definition**](#gt_a9334023-d8c5-407b-9ecc-b6717d05a8ae) is deleted.

###### RoleAssignmentAdded

**Value:** 10309

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) is added.

###### RoleAssignmentDeleted

**Value:** 10310

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**role assignment**](#gt_db4ae750-c3a8-478c-81c7-83e08e1f2dd0) is deleted.

###### InheritanceBroken

**Value:** 10311

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an inheritance has been broken.

###### WorkflowStarted

**Value:** 10501

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) has started running.

###### WorkflowPostponed

**Value:** 10502

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) has been postponed.

###### WorkflowCompleted

**Value:** 10503

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**workflow**](#gt_356359d0-525e-4037-93b5-9567489c16ce) has completed running.

###### EntityInstanceAdded

**Value:** 10601

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) has been added.

###### EntityInstanceUpdated

**Value:** 10602

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) has been updated.

###### EntityInstanceDeleted

**Value:** 10603

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) has been deleted.

###### AppInstalled

**Value:** 10701

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) has been installed.

###### AppUpgraded

**Value:** 10702

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) has been upgraded.

###### AppUninstalling

**Value:** 10703

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after an [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) has been uninstalled.

###### EmailReceived

**Value:** 20000

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) received an e-mail message.

###### ContextEvent

**Value:** 32766

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) received a context event.

###### InheritanceResetting

**Value:** 312

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs before the role inheritance is restored.

###### InheritanceReset

**Value:** 10312

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after the role inheritance is restored.

###### WebRestored

**Value:** 10205

Specifies an [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that occurs after a site was restored from the recycle bin.

#### 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)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) control.[<209>](#Appendix_A_209" \o "Product behavior note 209)

##### Properties

###### Scalar Properties

IconUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the icon for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

ItemId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

The [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

ListId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) of the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

If **ListId** is NULL then the parent list of the target list item is the same as the parent list of the source list item.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

This property is first mapped to the **Title** property of underlying [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) if the **Title** property is not **null**. If that fails, it is mapped it to the **Title** or **Filename** property of **ListItem.File** (section [3.2.5.87.1.2.5](#Section_52d473ba6d334dc2847cbb0650ea240e)) object if present. Finally the mapping defaults to a static title string.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Maps to the default display form [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the underlying [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) or file URL if **ListItem.File** (section [3.2.5.87.1.2.5](#Section_52d473ba6d334dc2847cbb0650ea240e)) object is present.

WebId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) which contains the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) of the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

If **WebId** is NULL then the site that contains the target list item is the same as the site that contains the source list item.

###### ObjectPath Properties

None.

#### 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](#Section_4a06e0a3275247b292f6970b437d1e17)).[<210>](#Appendix_A_210" \o "Product behavior note 210)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

AddSingleLink

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Adds a unidirectional link from one [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) to another.

**Parameters:**

*SourceListName:* Specifies the title or [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) for the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) of the source list item.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*SourceItemID:* Specifies the [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae)of the source list item.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*SourceWebUrl:* Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) or [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) which contains the parent list of the source list item.

Type: CSOM String

If SourceWebUrl is Null the Current Web will be used.

*TargetListName:* Specifies the title or list identifier for the parent list of the target list item.

Type: CSOM String

*TargetItemID:* Specifies the list item identifier of the target list item.

Type: CSOM Int32

*TargetWebUrl:* Specifies the URL or site identifier for the site which contains the parent list of the target list item.

Type: CSOM String

*TryAddReverseLink:* Specifies whether an attempt will be made to create a link from the target list item to the source list item in addition to the link from the source item to the target item.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

No error will be raised if adding the reverse link fails.

DeleteSingleLink

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Deletes a unidirectional link between source and target [**list items**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

**Parameters:**

*SourceListName:* Specifies the title or [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) for the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) of the source list item.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*SourceItemID:* Specifies the [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) of the source list item.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*SourceWebUrl:* Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) or [**site identifier**](#gt_ebf93377-32f0-40cf-b15f-c2036e8d96dd) for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) which contains the parent list of the source list item.

Type: CSOM String

*TargetListName:* Specifies the title or list identifier for the parent list of the target list item.

Type: CSOM String

*TargetItemID:* Specifies the list item identifier of the target list item.

Type: CSOM Int32

*TargetWebUrl:* Specifies the URL or site identifier for the site which contains the parent list of the target list item.

Type: CSOM String

*TryDeleteReverseLink:* Specifies whether an attempt will be made to delete a link from the target list item to the source list item in addition to deleting the link from the source item to the target item.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

No error will be raised if deleting the reverse link fails.

GetPageOneRelatedItems

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.RelatedItem

Returns a list of items related to the source [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). The maximum count of related items is four.

**Parameters:**

*SourceListName:* Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#Section_bdc6378611cc46a2a7bffdacc0108c41)) property of the source list item.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*SourceItemID:* Specifies the **Id** (section [3.2.5.87.1.1.5](#Section_5b02a9c47c594dd1bf50e0c3bdb0fba1)) property of the source list item.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

GetRelatedItems

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.RelatedItem

Returns a list of items related to the source [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3). The maximum count of related items is nine.

**Parameters:**

*SourceListName:* Specifies the **Title** property for the **ParentList** (section [3.2.5.87.1.2.6](#Section_bdc6378611cc46a2a7bffdacc0108c41)) property of the source list item.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*SourceItemID:* Specifies the **Id** (section [3.2.5.87.1.1.5](#Section_5b02a9c47c594dd1bf50e0c3bdb0fba1)) property of the source list item.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

AddSingleLinkFromUrl

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Adds a unidirectional link from one [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) to another using a URL for the source list item.

**Parameters:**

*SourceItemUrl:* Specifies a URL for the source list item.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*TargetListName:* Specifies the title or [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) for the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) of the target list item.

Type: CSOM String

*TargetItemID:* Specifies the [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) of the target list item.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*TryAddReverseLink:* Specifies whether an attempt will be made to create a link from the target list item to the source list item in addition to the link from the source item to the target item.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

No error will be raised if adding the reverse link fails.

AddSingleLinkToUrl

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Adds a unidirectional link from one [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) to another using a URL for the target list item.

**Parameters:**

*SourceListName:* Specifies the title or [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) for the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) of the source list item.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*SourceItemID:* Specifies the [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) of the source list item.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*TargetItemUrl:* Specifies a URL pointing to the target item.

Type: CSOM String

*TryAddReverseLink:* Specifies whether an attempt will be made to create a link from the target list item to the source list item in addition to the link from the source item to the target item.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

No error will be raised if adding the reverse link fails.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.UpgradeType

**ShortName:** SP.UpgradeType

**Flag:** false

Specifies the type of [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade to conduct on a site collection.[<211>](#Appendix_A_211" \o "Product behavior note 211)

##### Field Values

###### BuildUpgrade

**Value:** 0

Specifies build-to-build ([**minor version**](#gt_e0d99b53-9426-4a45-8429-b012184a4045)) [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade.

###### VersionUpgrade

**Value:** 1

Specifies version-to-version ([**major version**](#gt_66583c77-eb07-43c4-8f1b-dd157580db46)) [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade.

#### Microsoft.SharePoint.Client.Utilities.WikiPageCreationInformation

**TypeId:** {9E154AAB-8847-4CF9-8BFA-EB8C1EC47926}

**ShortName:** SP.Utilities.WikiPageCreationInformation

Specifies wiki page creation information.[<212>](#Appendix_A_212" \o "Product behavior note 212)

##### Properties

###### Scalar Properties

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the wiki page to be created.

It MUST NOT be empty. It MUST be a URL of server-relative form.

WikiHtmlContent

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) content of the wiki page.

###### ObjectPath Properties

None.

#### Microsoft.BusinessData.MetadataModel.AppBdcCatalog

**TypeId:** {8D36B2B8-5B9A-49A8-892B-5E9539FAF4E8}

**ShortName:** SP.BusinessData.AppBdcCatalog

Represents the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) for an [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) that contains [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf)s provisioned by the application.[<213>](#Appendix_A_213" \o "Product behavior note 213)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetConnectionId

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) file. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is **null**. |
| -2147024894 | System.IO.FileNotFoundException | BDC MetadataCatalog file not found. |

GetLobSystemInstanceProperty

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) 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**. These properties are described in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.24.

**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)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) file. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is **null**. |
| -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. |

GetLobSystemProperty

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the value of the specified property for the given external system.

**Parameters:**

*lobSystemName:* The name of the external [**line-of-business (LOB) system**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).

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 **RdbConnection Data Source**. **WcfMexDocumentUrl** and **ODataServiceMetadataUrl** properties are described in [[MS-BDCMFFS]](%5bMS-BDCMFFS%5d.pdf#Section_0c568f7136de4a89b44fcab48609b86a) section 2.1.3.23.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.ArgumentException | Line-of-business (LOB) system does not exist in the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) file. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is **null**. |
| -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. |

GetPermissibleConnections

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the list of external connections that the [**application**](#gt_15dae0ae-da4d-4984-9c8f-4f337e8e42d2) 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. |

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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) under which the external system instance is defined.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) file. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is **null**. |
| -2147024894 | System.IO.FileNotFoundException | BDC MetadataCatalog file not found. |

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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286) under which the external system instance is defined.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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:* New value for the property.

Type: CSOM String

**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)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) file. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is **null**. |
| -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. |

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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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**, **ODataServiceMetadataUrl** and **RdbConnection Data Source**.

*propertyValue:* New value for the property.

Type: CSOM String

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.ArgumentException | LOB system does not exist in the [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) file. |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is **null**. |
| -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. |

###### ObjectPath Methods

GetEntity

**Return Type:** Microsoft.BusinessData.MetadataModel.Entity

Gets the [**external content type**](#gt_df9dcbea-1df6-4537-ba61-04770bee66cf) with the given name and namespace.

**Parameters:**

*namespace:* The namespace of the external content type. Namespaces are case sensitive.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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 **null**. |
| -2147024894 | System.IO.FileNotFoundException | [**Business Data Connectivity (BDC)**](#gt_bba64609-06cf-4a3a-afac-bdce6d72ab16) [**MetadataCatalog**](#gt_ff84e254-ae8f-4891-9c0a-3f5d84300be8) file not found. |

#### Microsoft.SharePoint.Client.SiteHealth.SiteHealthSummary

**TypeId:** {9B6A775C-EE99-4DF4-B251-3E004216D5B0}

**ShortName:** SP.SiteHealth.SiteHealthSummary

Specifies a summary of the results of running a set of [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rules.[<214>](#Appendix_A_214" \o "Product behavior note 214)

##### Properties

###### Scalar Properties

FailedErrorCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rules that failed with an error.

FailedWarningCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rules that failed with a warning.

PassedCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rules that passed.

Results

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.SiteHealth.SiteHealthResult

**Accessibility:** Read Only

Specifies a list of [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule results, one for each site collection health rule that was run.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### 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.[<215>](#Appendix_A_215" \o "Product behavior note 215)

##### Properties

###### Scalar Properties

AdditionalHeaders

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read/Write

Specifies the email headers collection that corresponds to any additional fields of the message.

BCC

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**blind carbon copy (bcc) recipients**](#gt_9de5f2ec-d5b8-410e-a4f3-2efdfb230bbe) of the email.

Body

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**message body**](#gt_f8f4c2f5-c760-4abe-a9a1-573302980088) to send.

CC

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**carbon copy (cc) recipients**](#gt_09f64c96-e82f-45d3-b6cc-4df859cbf37a) of the email.

From

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the From field of the email.

Subject

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the Subject field of the e-mail.

To

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the To field of the email.

###### ObjectPath Properties

None.

#### 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**](#gt_a40b0111-e4aa-4b5c-a8b8-d28defe1c286).[<216>](#Appendix_A_216" \o "Product behavior note 216)

Filters are the mechanism to pass parameters to the external LOB system methods.

##### Properties

###### Scalar Properties

DefaultDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the default display name of the filter.

FilterField

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**field (3)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) in the [**View**](#gt_06fe2bc6-4d64-40e0-96b8-51651495125c) that is affected by the result of this filter, described by dot notation path, 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.

FilterType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**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.

LocalizedDisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the localized display name of the [**field (3)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) if available.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the filter.

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

ValueCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of values for this filter.

Its value MUST be equal to or greater than 0.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.MetadataModel.MethodExecutionResult

**TypeId:** {EA36AF83-3D6A-4AE3-9EB1-4ED8E85EB179}

**ShortName:** SP.BusinessData.MethodExecutionResult

Represents generic invoker method result.[<217>](#Appendix_A_217" \o "Product behavior note 217)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

ReturnParameterCollection

**Type:** Microsoft.BusinessData.MetadataModel.ReturnParameterCollection

**Accessibility:** Read Only

Specifies the **ReturnParameterCollection** (section [3.2.5.215](#Section_7d175cb3b804429a9f34d5636979491a)) for the **MethodExecutionResult** (section [3.2.5.214](#Section_b0082bd5f5d245eea03d28ec11daed85)).

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### 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](#Section_a78c8e7a5144486eb6d3429ff603c8b4)) objects.[<218>](#Appendix_A_218" \o "Product behavior note 218)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SiteHealth.SiteHealthResult

**TypeId:** {3BA0823B-9B49-433B-A8A6-65A5139F06EC}

**ShortName:** SP.SiteHealth.SiteHealthResult

Specifies the result of running a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule.[<219>](#Appendix_A_219" \o "Product behavior note 219)

##### Properties

###### Scalar Properties

Status

**Type:** Microsoft.SharePoint.Client.SiteHealth.SiteHealthStatusType

**Accessibility:** Read/Write

Specifies the success or failure mode returned by a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule.

TimeStamp

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read/Write

Specifies the date and time when the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule was run.

MessageAsText

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a summary of the results of running a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule.

RuleHelpLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a [**hyperlink**](#gt_dbe6a2d4-1841-4b4a-a9f6-562c6df7897e) to help information about the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule.

RuleId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the unique identifier of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule.

RuleIsRepairable

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule is capable of attempting a repair of the issues found by the rule.

RuleName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) health rule.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerQueryParameters

**TypeId:** {AC9358C6-E9B1-4514-BF6E-106ACBFB19CE}

**ShortName:** SP.UI.ApplicationPages.ClientPeoplePickerQueryParameters

Specifies the properties of a [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.[<220>](#Appendix_A_220" \o "Product behavior note 220)

##### Properties

###### Scalar Properties

AllowEmailAddresses

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query can return a resolved principal matching an unverified [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) when unable to resolve to a known principal.

AllowMultipleEntities

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query allows multiple values.

AllUrlZones

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query will search all locations in the topology of the [**farm**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a).

EnabledClaimProviders

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**claims providers**](#gt_65d8c1dd-288e-4b96-8714-2c327b32bdf4) to be used in the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

MaximumEntitySuggestions

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies the maximum number of [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) to be returned by the principal query.

PrincipalSource

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalSource

**Accessibility:** Read/Write

Specifies the source to be used in the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

PrincipalType

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalType

**Accessibility:** Read/Write

Specifies the type to be used in the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

QueryString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the value to be used in the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

Required

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query is required to return a result.

SharePointGroupID

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) containing allowed [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) to be used in the principal query.

UrlZone

**Type:** Microsoft.SharePoint.Client.UrlZone

**Accessibility:** Read/Write

Specifies a location in the topology of the [**farm**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a) for the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

UrlZoneSpecified

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether any locations in the topology of the [**farm**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a) have been specified for the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

WebApplicationID

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

Specifies the identifier of the [**Web application**](#gt_6b0c6982-1354-4309-86eb-c4c4ae9d8bcb) to be used in the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

ForceClaims

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query SHOULD be handled by [**claims providers**](#gt_65d8c1dd-288e-4b96-8714-2c327b32bdf4).

AllowOnlyEmailAddresses

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether to allow the picker to resolve only email addresses as valid entities.

This property is only used when **AllowEmailAddresses** (section [3.2.5.217.1.1.1](#Section_a5c161245f9349809a320edbe589c105)) is set to True. Otherwise it is ignored.

###### ObjectPath Properties

Web

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read/Write

Specifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to be used in the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) query.

#### Microsoft.SharePoint.Client.DateTimeFieldFriendlyFormatType

**ShortName:** SP.DateTimeFieldFriendlyFormatType

**Flag:** false

Specifies a friendly format to use in displaying date and time [**fields (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).[<221>](#Appendix_A_221" \o "Product behavior note 221)

##### Field Values

###### Unspecified

**Value:** 0

Undefined. The default rendering will be used.

###### Disabled

**Value:** 1

The standard absolute representation will be used (for example, "2011-01-15 3:00 PM").

###### Relative

**Value:** 2

The standard friendly relative representation will be used (for example, "today at 3:00 PM").

#### Microsoft.SharePoint.Client.RegionalSettings

**TypeId:** {84C424A9-A1D6-46BA-8398-C46257ECD25B}

**ShortName:** SP.RegionalSettings

Specifies the locale settings of a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<222>](#Appendix_A_222" \o "Product behavior note 222)

##### Properties

###### Scalar Properties

AdjustHijriDays

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

Specifies the number of days to extend or reduce the current month in Hijri calendars on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

AlternateCalendarType

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

Gets an alternate calendar type that is used on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

The possible values are described in the table below.

| Value | Description |
| --- | --- |
| 0 | No alternate calendar |
| 1 | Gregorian |
| 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 |

AM

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the string that is used to represent time before midday on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

CalendarType

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

Specifies the calendar type that SHOULD be used when processing date values on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). This value MUST be a **CalendarType** as specified in [[MS-WSSFO2]](%5bMS-WSSFO2%5d.pdf#Section_4ac66069a82b4132aabfdfbaaf3c986c) section 2.2.3.3 or [[MS-WSSFO3]](%5bMS-WSSFO3%5d.pdf#Section_46249efdd18442ccbaada605875ef783) section 2.2.1.2.3.

Collation

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

Specifies the [**collation**](#gt_b2b849a2-62ff-499d-a7d2-612bbd267012) order of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), which indicates an additional sorting order that SHOULD be processed by any [**back-end database server**](#gt_303b4b1e-d42c-4cd3-a8cd-73824cd240a7) associated with the site. The collation method is an implementation-specific capability of the front-end Web server and back-end database server.

CollationLCID

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read Only

Gets the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) for the [**collation**](#gt_b2b849a2-62ff-499d-a7d2-612bbd267012) rules that are used on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

DateFormat

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**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. |

DateSeparator

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the separator that is used for dates on the server.

DecimalSeparator

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the separator that is used for decimals on the server.

DigitGrouping

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the separator that is used in grouping digits.

FirstDayOfWeek

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read/Write

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 |

FirstWeekOfYear

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

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. |

IsEastAsia

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Returns "true" if the web locale is an East Asia locale; "false" otherwise.

IsRightToLeft

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) 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".

IsUIRightToLeft

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the UI of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) 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".

LocaleId

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**Accessibility:** Read/Write

Specifies the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) in use on the server.

NegativeSign

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the symbol that is used to represent a negative sign on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

NegNumberMode

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**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 extra space. | 1.1 - |

PM

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the string that is used to represent time after noon on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

PositiveSign

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the symbol that is used to represent a positive number on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

ShowWeeks

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether to display the week number in day or week views of a calendar.

ThousandSeparator

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the symbol that is used to separate thousands for numbers on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). For example, if the symbol is "," the number 123456789 would appear as "123,456,789".

Time24

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) 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".

TimeMarkerPosition

**Type:** [**CSOM UInt32**](#gt_dbe3bb50-3f0c-4e7e-bcc9-f13607d184f5)

**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 |

TimeSeparator

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the time separator symbol that is used on the server. For example, if the separator is ":", the time will appear as "12:08 AM".

WorkDayEndHour

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

Specifies the default hour at which the work day ends on the calendar that is in use on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

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 |

WorkDays

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

Specifies a number that represents the work days of [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) calendars.

Specifies a value that represents the work days in the site. 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.

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 | Thursday |
| 2 | 0000010 | Friday |
| 1 | 0000001 | Saturday |
| 62 | 0111110 | Monday to Friday |

WorkDayStartHour

**Type:** [**CSOM Int16**](#gt_875f0a7e-dfa9-4de6-8178-1784514889f0)

**Accessibility:** Read/Write

Specifies the default hour at which the work day starts on the calendar that is in use on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

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 |

ListSeparator

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the separator that is used for lists on the server. For example, if the separator is ",", items in a list will appear as "1,2,3,4".

###### ObjectPath Properties

TimeZone

**Type:** Microsoft.SharePoint.Client.TimeZone

**Accessibility:** Read/Write

Specifies the [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab) of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

TimeZones

**Type:** Microsoft.SharePoint.Client.TimeZoneCollection

**Accessibility:** Read Only

Specifies the collection of [**time zones**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab) used on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Methods

###### Scalar Methods

Update

**Return Type:** None

Saves updates that have been done to this object.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.TimeZone

**TypeId:** {5519D02C-CE37-4B91-B61D-A1CEFE0FC85E}

**ShortName:** SP.TimeZone

Specifies the [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab) of a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).[<223>](#Appendix_A_223" \o "Product behavior note 223)

##### Properties

###### Scalar Properties

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the display name of the [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab).

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the identifier of the [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab).

Information

**Type:** Microsoft.SharePoint.Client.TimeZoneInformation

**Accessibility:** Read Only

Specifies additional information about the [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

LocalTimeToUTC

**Return Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

Converts the specified date and time from the time zone to [**Coordinated Universal Time (UTC)**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7).

**Parameters:**

*date:* Specifies the value to convert.

Type: CSOM DateTime

UTCToLocalTime

**Return Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

Converts the specified date and time from [**Coordinated Universal Time (UTC)**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7) to the [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab).

**Parameters:**

*date:* Specifies the value to convert

Type: CSOM DateTime

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.TimeZoneCollection

**TypeId:** {117CBF47-7E74-4165-B26B-C24180AB2095}

**ShortName:** SP.TimeZoneCollection

Represents a collection of SPTimeZone objects.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetById

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

Retrieves a time zone from the collection using the specified identifier.

**Parameters:**

*id:* The identifier associated with the time zone.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

#### Microsoft.SharePoint.Client.TimeZoneInformation

**TypeId:** {09E18222-7E4D-488B-811D-6EF43F31D17F}

**ShortName:** SP.TimeZoneInformation

Specifies metadata about a [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab).[<224>](#Appendix_A_224" \o "Product behavior note 224)

##### Properties

###### Scalar Properties

Bias

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of minutes that the [**time zone**](#gt_7a385a78-3cb1-418e-a79b-235519a15cab) differs from [**Coordinated Universal Time (UTC)**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7). A positive value indicates that the time zone is behind UTC.

DaylightBias

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of minutes added to the **Bias** (section [3.2.5.222.1.1.1](#Section_d2f4f9d525dc4b9ca3a925f0736b70a5)) during Daylight Savings Time.

StandardBias

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of minutes added to the **Bias** (section [3.2.5.222.1.1.1](#Section_d2f4f9d525dc4b9ca3a925f0736b70a5)) outside of Daylight Savings Time.

###### ObjectPath Properties

None.

#### 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**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

ClientPeoplePickerResolveUser

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Resolves the [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) to a string of JSON representing users in people picker format.

**Parameters:**

*queryParams:* Specifies the properties of a principal query.

Type: Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerQueryParameters

ClientPeoplePickerSearchUser

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns for a string of JSON representing users in people picker format of the specified [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

**Parameters:**

*queryParams:* Specifies the properties of a principal query.

Type: Microsoft.SharePoint.ApplicationPages.ClientPickerQuery.ClientPeoplePickerQueryParameters

###### ObjectPath Methods

None.

#### 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**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).[<225>](#Appendix_A_225" \o "Product behavior note 225)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetSearchResults

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Specifies a [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) formatted CSOM String of [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) found in the search.

**Parameters:**

*searchPattern:* Specifies a pattern used to search for principals. The value is implementation-specific.

Type: CSOM String

*providerID:* The identifier of a [**claims provider**](#gt_65d8c1dd-288e-4b96-8714-2c327b32bdf4).

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 to search for.

Type: CSOM String

This value MUST be a comma-separated list of principals.

GetSearchResultsByHierarchy

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Specifies a [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) formatted CSOM String of [**principals**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) found in the search grouped by hierarchy.

**Parameters:**

*providerID:* The identifier of a [**claims provider**](#gt_65d8c1dd-288e-4b96-8714-2c327b32bdf4).

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 to search for.

Type: CSOM String

This value MUST be a comma-separated list of principals.

*contextUrl:* The URL to use as context when searching for principals.

Type: CSOM String

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RelatedFieldExtendedData

**TypeId:** {45FBCB1B-F734-4A96-86FE-836835C605F0}

**ShortName:** SP.RelatedFieldExtendedData

Specifies properties of a [**relationship lookup field**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24).[<226>](#Appendix_A_226" \o "Product behavior note 226)

##### Properties

###### Scalar Properties

FieldId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) identifier of the [**relationship lookup field**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24).

ListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) identifier of the [**relationship lookup field**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24).

ListImageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the icon of the target [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

It MUST NOT be NULL. Its length MUST be equal to or less than 255. It MUST be a [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) or an [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85).

ResolvedListTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the resolved titles of the [**relationship lookup field**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24) and the target [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

ToolTipDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the description of the [**relationship lookup field**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24) and the target [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) to be displayed on the [**ToolTip**](#gt_5100b5cd-9168-4f0c-a088-a143921b8640).

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) containing the target [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) for the [**relationship lookup field**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RelatedFieldExtendedDataCollection

**TypeId:** {32ED187C-003C-413F-9799-1A2822ADE931}

**ShortName:** SP.RelatedFieldExtendedDataCollection

Specifies a collection of [**objects (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) that store properties of [**relationship lookup fields**](#gt_6c88afe0-5f78-447f-843f-c067838d4f24).[<227>](#Appendix_A_227" \o "Product behavior note 227)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ObjectSharingInformation

**TypeId:** {E7DAE9F6-8CA5-4286-92C8-61941D774C44}

**ShortName:** SP.ObjectSharingInformation

Provides information about the sharing state of a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).[<228>](#Appendix_A_228" \o "Product behavior note 228)

##### Properties

###### Scalar Properties

IsSharedWithCurrentUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is shared with the user making the current request.

IsSharedWithGuest

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) can be accessed by an anonymous user.

IsSharedWithMany

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is shared with at least 30 users or with at least one [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a).

IsSharedWithSecurityGroup

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is shared with at least one [**security group**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a).

AnonymousEditLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Provides the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) that allows an anonymous user to edit the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

If such a URL is not available, this property will provide an empty string.

AnonymousViewLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Provides the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) that allows an anonymous user to view the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

If such a URL is not available, this property will provide an empty string.

CanManagePermissions

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the current user is allowed to change the [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) of the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

HasPendingAccessRequests

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Provides information about whether there are any pending access requests for the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

This information is only provided if the current user has sufficient [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to view any pending access requests. If the current user does not have such permissions, this property will return false.

PendingAccessRequestsLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Provides a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) to a location that describes any access requests present in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

This information is only provided if the current user has sufficient [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to view any pending access requests. If the current user does not have such permissions, this property will return an empty string.

HasPermissionLevels

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the object sharing information contains [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) information in addition to the identities of the users who have access to the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

CanBeShared

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the current [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) can be shared.

CanBeUnshared

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the current [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) can be unshared.

SharingLinks

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.SharingLinkInfo

**Accessibility:** Read Only

Indicates the collection of all available sharing links for the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

IsFolder

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the current selection is a folder.

TotalFileCount

**Type:** [**CSOM UInt64**](#gt_ea2be202-2ae5-40ed-bb7f-c17107f96ee8)

**Accessibility:** Read Only

Indicates the number of files under the directory if the current selection is a directory (**IsFolder** is true).

###### ObjectPath Properties

SharedWithUsersCollection

**Type:** Microsoft.SharePoint.Client.ObjectSharingInformationUserCollection

**Accessibility:** Read Only

A collection of shared with users.

##### Methods

###### Scalar Methods

CanCurrentUserShare

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Indicates whether the current user can share the document identified by docId.

**Parameters:**

*docId:* Identifies the document that will be analyzed from a sharing perspective.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

CanCurrentUserShareRemote

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Indicates whether the current user can share the document identified by docId, from a remote context.

**Parameters:**

*docId:* Identifies the document that will be analyzed from a sharing perspective.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

GetObjectSharingInformation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Retrieves information about the sharing state for a given [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

**Parameters:**

*securableObject:* Specifies the securable object for which to obtain sharing information.

Type: Microsoft.SharePoint.Client.SecurableObject

*excludeCurrentUser:* Specifies whether the returned sharing state information will exclude information about the user making the request.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*excludeSiteAdmin:* Specifies whether the returned sharing state information will exclude information about users who are [**site collection administrators**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) which contains the securable object.

Type: CSOM Boolean

*excludeSecurityGroups:* Specifies whether the returned sharing state information will exclude information about [**security groups**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) which have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to the securable object.

Type: CSOM Boolean

*retrieveAnonymousLinks:* Specifies whether the returned sharing state information will contain information about a URL that allows an anonymous user to access the securable object.

Type: CSOM Boolean

*retrieveUserInfoDetails:* Specifies whether the returned sharing state information will contain basic or detailed information about the users with permissions to the securable object.

Type: CSOM Boolean

This parameter is ignored if detailed information is not available.

*checkForAccessRequests:* Specifies whether the returned sharing state information will contain a URL to a location which describes any access requests present in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), if such a URL is available.

Type: CSOM Boolean

*retrievePermissionLevels:* Specifies whether the returned sharing state information will contain permission information for each returned user.

Type: CSOM Boolean

This parameter is ignored if permission information is not available.

GetListItemSharingInformation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Retrieves information about the sharing state for a given [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

**Parameters:**

*listID:* The [**list identifier**](#gt_c0840405-6151-4827-8f47-85b78f78c065) for the list which contains the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) for which the sharing state is requested.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*itemID:* The [**list item identifier**](#gt_ff654866-58b1-42dd-bb8f-f422c11b85ae) for the list item for which the sharing state is requested.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*excludeCurrentUser:* Specifies whether the returned sharing state information will exclude information about the user making the request.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*excludeSiteAdmin:* Specifies whether the returned sharing state information will exclude information about users who are [**site collection administrators**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) which contains the list.

Type: CSOM Boolean

*excludeSecurityGroups:* Specifies whether the returned sharing state information will exclude information about [**security groups**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) which have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to the list item.

Type: CSOM Boolean

*retrieveAnonymousLinks:* Specifies whether the returned sharing state information will contain information about a URL that allows an anonymous user to access the list item.

Type: CSOM Boolean

*retrieveUserInfoDetails:* Specifies whether the returned sharing state information will contain basic or detailed information about the users with permissions to the list item.

Type: CSOM Boolean

*checkForAccessRequests:* Specifies whether the returned sharing state information will contain a URL to a location which describes any access requests present in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), if such a URL is available.

Type: CSOM Boolean

GetSharedWithUsers

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.ObjectSharingInformationUser

Returns an array that contains the users with whom a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is shared.

**Parameters:** None

GetWebSharingInformation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Retrieves information about the sharing state for the current [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). The current site is the site in the context of which this method is invoked.

**Parameters:**

*excludeCurrentUser:* Specifies whether the returned sharing state information will exclude information about the user making the request.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*excludeSiteAdmin:* Specifies whether the returned sharing state information will exclude information about users who are [**site collection administrators**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) which contains the current site.

Type: CSOM Boolean

*excludeSecurityGroups:* Specifies whether the returned sharing state information will exclude information about [**security groups**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) which have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to the current site.

Type: CSOM Boolean

*retrieveAnonymousLinks:* This parameter is ignored by the method.

Type: CSOM Boolean

*retrieveUserInfoDetails:* Specifies whether the returned sharing state information will contain basic or detailed information about the users with permissions to the current site.

Type: CSOM Boolean

*checkForAccessRequests:* Specifies whether the returned sharing state information will contain a URL to a location which describes any access requests present in the current site, if such a URL is available.

Type: CSOM Boolean

GetObjectSharingInformation2

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Retrieves information about the sharing state for a given [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

**Parameters:**

*securableObject:* Specifies the securable object for which to obtain sharing information.

Type: Microsoft.SharePoint.Client.SecurableObject

*excludeCurrentUser:* Specifies whether the returned sharing state information will exclude information about the user making the request.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*excludeSiteAdmin:* Specifies whether the returned sharing state information will exclude information about users who are [**site collection administrators**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) which contains the securable object.

Type: CSOM Boolean

*excludeSecurityGroups:* Specifies whether the returned sharing state information will exclude information about [**security groups**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) which have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to the securable object.

Type: CSOM Boolean

*retrieveAnonymousLinks:* Specifies whether the returned sharing state information will contain information about a URL that allows an anonymous user to access the securable object.

Type: CSOM Boolean

*retrieveUserInfoDetails:* Specifies whether the returned sharing state information will contain basic or detailed information about the users with permissions to the securable object.

Type: CSOM Boolean

*checkForAccessRequests:* Specifies whether the returned sharing state information will contain a URL to a location which describes any access requests present in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), if such a URL is available.

Type: CSOM Boolean

*retrievePermissionLevels:* Specifies whether the returned sharing state information will contain permission information for each returned user.

Type: CSOM Boolean

*forceRetrievePermissionLevels:* Specifies whether to always retrieve sharing information with permission levels.

Type: CSOM Boolean

GetObjectSharingInformationByUrl

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Retrieves information about the sharing state for a given object URL.

**Parameters:**

*objectUrl:* Specifies the URL of the securable object for which to obtain sharing information.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*excludeCurrentUser:* Specifies whether the returned sharing state information will exclude information about the user making the request.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*excludeSiteAdmin:* Specifies whether the returned sharing state information will exclude information about users who are [**site collection administrators**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4) of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) which contains the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

Type: CSOM Boolean

*excludeSecurityGroups:* Specifies whether the returned sharing state information will exclude information about [**security groups**](#gt_699c4298-ea39-4b88-8788-db0b31b8322a) which have [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) to the securable object.

Type: CSOM Boolean

*retrieveAnonymousLinks:* Specifies whether the returned sharing state information will contain information about a URL that allows an anonymous user to access the securable object.

Type: CSOM Boolean

*retrieveUserInfoDetails:* Specifies whether the returned sharing state information will contain basic or detailed information about the users with permissions to the securable object.

Type: CSOM Boolean

*checkForAccessRequests:* Specifies whether the returned sharing state information will contain a URL to a location which describes any access requests present in the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba), if such a URL is available.

Type: CSOM Boolean

*retrievePermissionLevels:* Specifies whether the returned sharing state information will contain permission information for each returned user.

Type: CSOM Boolean

#### Microsoft.SharePoint.Client.PushNotificationSubscriber

**TypeId:** {1489ADD2-5D3A-4DE8-9445-49259462DCEB}

**ShortName:** SP.PushNotificationSubscriber

Specifies a push notification subscriber.[<229>](#Appendix_A_229" \o "Product behavior note 229)

##### Properties

###### Scalar Properties

CustomArgs

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**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.

DeviceAppInstanceId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies a device [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) identifier.

LastModifiedTimeStamp

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the time and date when the subscriber was last updated.

RegistrationTimeStamp

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the time and date when the subscriber registered for push notifications.

ServiceToken

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the delivery channel [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) for push notifications.

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

SubscriberType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the type of the subscriber.

###### ObjectPath Properties

User

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user for the push notification subscriber.

##### Methods

###### Scalar Methods

Update

**Return Type:** None

Updates the push notification subscriber in the store with the changes made to the instance.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.PushNotificationSubscriberCollection

**TypeId:** {99676B16-B4C9-429A-B3D9-DE883C42C4D5}

**ShortName:** SP.PushNotificationSubscriberCollection

Specifies a collection of push notification subscribers.[<230>](#Appendix_A_230" \o "Product behavior note 230)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetByStoreId

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

Returns the push notification subscriber from the specified store identifier.

**Parameters:**

*id:* Store identifier for the notification subscriber.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.BusinessData.Runtime.EntityEventType

**ShortName:** SP.BusinessData.Runtime.EntityEventType

**Flag:** false

The enumeration of event types to be used in the **Subscriber** stereotype.

##### Field Values

###### None

**Value:** 0

This value denotes an invalid event type. This value MUST NOT be used in the **Subscriber** stereotype.

###### ItemAdded

**Value:** 1

An item has been added.

###### ItemUpdated

**Value:** 2

An item has been updated.

###### ItemDeleted

**Value:** 3

An item has been deleted.

#### Microsoft.BusinessData.Runtime.NotificationCallback

**TypeId:** {87D0A4EE-8341-4848-8078-5135A1357A9D}

**ShortName:** SP.BusinessData.Runtime.NotificationCallback

Specifies the properties of the endpoint to which notifications from the external system is delivered.

##### Properties

###### Scalar Properties

NotificationContext

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The custom information that will be sent to the notification endpoint when notification arrives.

NotificationEndpoint

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) of the endpoint at which notifications will be received.

NotificationForwarderType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The type of the intermediate forwarder site on the protocol server that forwards the notifications to the [**notification**](#gt_4571dc27-4115-4cdf-8dc3-f8fe410a9966) [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee).

If no value is set, by default, the value is set to "CurrentContext". The allowed valid values for this parameter are "CurrentContext", "DeliveryAddressRelative" and "GlobalStore".

* If value "CurrentContext" is provided, then the site in the current context of the CSOM request will be used as the intermediate forwarder site.
* If value "GlobalStore" is provided, then the site information saved at the administration catalog will be used as the intermediate forwarder site. The property with name "EntityNotificationWeb" contains a value with site information in the format "<site\_collection\_id>,<site\_id>".
* If the value "DeliveryAddressRelative" is provided, then the site information found in the notification endpoint will be used as the intermediate forwarder site.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

CSOM Constructor

Creates an instance of type **NotificationCallback** (section [3.2.5.231](#Section_7c9fef6c74f1495eaa3506ff84c32f11)).

**Parameters:**

*notificationEndpoint:* The [**URI**](#gt_e18af8e8-01d7-4f91-8a1e-0fb21b191f95) of the endpoint at which notifications will be received.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.BusinessData.Runtime.Subscription

**TypeId:** {69AA7DD9-23A0-4E20-9464-0749FC0E6406}

**ShortName:** SP.BusinessData.Runtime.Subscription

The [**subscription**](#gt_f362c255-5746-44db-aa04-e8060543a19c) registration information token returned in response to the Subscriber stereotype call. This object is used as an input in the EventUnsubscriber stereotype call.

##### Properties

###### Scalar Properties

Hash

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The digest header set by [**Business Connectivity Services (BCS)**](#gt_60bc405d-f067-475b-91e6-673a28e0147f) to identify the [**Subscription**](#gt_f362c255-5746-44db-aa04-e8060543a19c) during Unsubscribe.

ID

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read Only

The map of [**subscription**](#gt_f362c255-5746-44db-aa04-e8060543a19c) identifier names and their values returned by the external system during the Subscriber stereotype call.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

CSOM Constructor

Creates an instance of type Subscription (section [3.2.5.232](#Section_2a504b50761c43edbe2e674600b08f44)).

**Parameters:**

*id:* The map of subscription identifier names and their values returned by the external system during the Subscriber stereotype call.

Type: [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

*hash:* The digest header set by [**Business Connectivity Services (BCS)**](#gt_60bc405d-f067-475b-91e6-673a28e0147f) to identity the [**Subscription**](#gt_f362c255-5746-44db-aa04-e8060543a19c) during Unsubscribe.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Administration.SPAnalyticsUsageService

**TypeId:** {D75AAFC0-CBE3-4930-9637-BB32DD276C8F}

**ShortName:** Microsoft.SharePoint.Administration.SPAnalyticsUsageService

Represents the entry point for the Event REST service exposed through CSOM.[<231>](#Appendix_A_231" \o "Product behavior note 231)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

logevent

**Return Type:** None

Used to log events.

**Parameters:**

*usageEntry:* the **UsageEntry** (section [3.2.5.234](#Section_d9afbb1fee3041199b78b785326ccbcf)) object representing the event.

Type: Microsoft.SharePoint.Administration.UsageEntry

The **UsageEntry** object is validated. **usageEntry.ItemId** (section [3.2.5.234.1.1.2](#Section_3f67ca5d99794eaa91e168ed45039641)) is a required property. **usageEntry.EventTypeId** (section [3.2.5.234.1.1.1](#Section_e7b1da3ddbaf42c98fbbe800ef6e1705)) is required and MUST be a valid event type. If **usageEntry.Site** (section [3.2.5.234.1.1.4](#Section_f1eeacb9e87b4c29ab663fb575f63330)) equals **Guid.Empty**, the current site is used.

###### ObjectPath Methods

CSOM Constructor

Creates an instance of type **SPAnalyticsUsageService** (section [3.2.5.233](#Section_3035bd4d575140f48cf6a91f7f4ae7a2))

**Parameters:** None

#### Microsoft.SharePoint.Administration.UsageEntry

**TypeId:** {6DFA6EB7-93AF-4625-95EA-508B84BE1751}

**ShortName:** Microsoft.SharePoint.Administration.UsageEntry

Represents an event, logged through the **logevent** method (section [3.2.5.233.2.1.1](#Section_63301ae336834824a97acd0fc7cebb48)).[<232>](#Appendix_A_232" \o "Product behavior note 232)

##### Properties

###### Scalar Properties

EventTypeId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

MUST be one of the values described in section [3.2.5.168](#Section_6dff1687e5644668826edc42210e307c).

ItemId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The identifier of the item to which the event applies.

ScopeId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

A scope identifier to which the event applies.

Site

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

The identifier of the site to which the event applies.

User

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The identifier of the user which the event relates to.

###### ObjectPath Properties

None.

#### Microsoft.BusinessData.Infrastructure.EntityInstanceIdEncoder

**TypeId:** {7B23E667-073D-42E2-B519-2FF52345735A}

**ShortName:** Microsoft.SharePoint.BusinessData.Infrastructure.EntityInstanceIdEncoder

Encodes and decodes [**EntityInstance**](#gt_ffe7e600-22e1-471d-87bd-bc05247bda6b) identifiers.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

EncodeEntityInstanceId

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Encodes the external item sub-identifiers and returns the encoded external item identifier.

**Parameters:**

*subIdentifiers:* An array of external item sub-identifiers.

Type: [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM Object**](#gt_ba84471c-3df5-4c86-acfa-e330b8cfe42e)

This method is not available in ECMAScript ([[ECMA-262-1999]](https://go.microsoft.com/fwlink/?LinkId=153655)).

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147467261 | System.ArgumentNullException | At least one of the parameters is null. |
| -2146233086 | System.ArgumentOutOfRangeException | Need less than 26 subIdentifiers. |

###### ObjectPath Methods

None.

#### Microsoft.BusinessData.Infrastructure.ExternalSubscriptionStore

**TypeId:** {B5D4DFA9-E948-4068-A32B-012EEA5A1A61}

**ShortName:** SP.BusinessData.Infrastructure.ExternalSubscriptionStore

Defines a SharePoint list which contains a collection of [**subscriptions**](#gt_f362c255-5746-44db-aa04-e8060543a19c). This collection is referred to in this section as the "external subscription store".

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

IndexStore

**Return Type:** None

Indexes the external subscription store.

**Parameters:** None

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.BusinessData.Infrastructure.BdcException | External Subscription Feature is not enabled or external subscriptions list is not found. |
| -2147024891 | System.UnauthorizedAccessException | User does not have permissions to index the external subscription store. |

###### ObjectPath Methods

CSOM Constructor

Creates an instance of type **ExternalSubscriptionStore** (section [3.2.5.236](#Section_143912328fac48fda779e40571da7097)).

**Parameters:**

*web:* The [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) containing the external subscription store.

Type: Microsoft.SharePoint.Client.Web

It MUST NOT be NULL.

#### Microsoft.SharePoint.Client.App

**TypeId:** {7B3E0C67-45C1-423C-AF60-240BD774ADC0}

**ShortName:** SP.App

Specifies an [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff).

##### Properties

###### Scalar Properties

AssetId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

If the [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) is from the marketplace, the value MUST be a unique identifier for the app package in the marketplace. Otherwise it MUST be NULL.

ContentMarket

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

If the [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) is from the marketplace, the value MUST be the [**marketplace content market**](#gt_ba1d1763-a584-4419-affd-059f8c39caae) of the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79). Otherwise it MUST be NULL.

VersionString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the version of the [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff).

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

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppInstanceStatus

**ShortName:** SP.AppInstanceStatus

**Flag:** false

Specifies the lifecycle status of this [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

##### Field Values

###### InvalidStatus

**Value:** 0

This value indicates an internal product error. An app instance SHOULD NOT have this value.

###### Installing

**Value:** 1

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is in the process of installing.

###### Canceling

**Value:** 7

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) was installing, but was cancelled, and is now uninstalling.

###### Uninstalling

**Value:** 4

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is uninstalling.

###### Installed

**Value:** 5

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is installed.

###### Upgrading

**Value:** 8

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is upgrading.

###### Initialized

**Value:** 9

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) has been created, but not yet installed.

###### UpgradeCanceling

**Value:** 10

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) was upgrading, but has cancelled.

###### Disabling

**Value:** 11

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is disabling.

###### Disabled

**Value:** 12

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is disabled.

###### SecretRolling

**Value:** 13

This value indicates that the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is rolling the secret associated with its [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

###### Recycling

**Value:** 14

This value indicates that the [**App instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is moving to the [**recycle**](#gt_1affeac2-ea55-47a0-aead-780c9e56b11d) bin.

###### Recycled

**Value:** 15

This value indicates that the [**App instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is in the [**recycle**](#gt_1affeac2-ea55-47a0-aead-780c9e56b11d) bin.

###### Restoring

**Value:** 16

This value indicates that the [**App instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) is moving from the [**recycled**](#gt_89bc6db5-a80f-47a0-9c68-2615e11c6210) bin back to Installed.

###### RestoreCanceling

**Value:** 17

This value indicates that the [**App instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) was restoring from the [**recycle**](#gt_1affeac2-ea55-47a0-aead-780c9e56b11d) bin, but has cancelled.

#### Microsoft.SharePoint.Client.AppLicense

**TypeId:** {D3425BF9-FE82-4957-AFDA-5FBD21DABB85}

**ShortName:** SP.AppLicense

Specifies a [**marketplace license**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc).[<233>](#Appendix_A_233" \o "Product behavior note 233)

##### Properties

###### Scalar Properties

RawXMLLicenseToken

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The implementation-specific [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) that specifies the [**marketplace license token**](#gt_8be722ef-f913-4a2f-8de7-c9278fd8ed55).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.AppLicenseCollection

**TypeId:** {47BEB529-4C4B-41BA-B717-28D18FBDF258}

**ShortName:** SP.AppLicenseCollection

Specifies a collection of [**marketplace licenses**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc).[<234>](#Appendix_A_234" \o "Product behavior note 234)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.AppLicenseType

**ShortName:** SP.AppLicenseType

**Flag:** false

Enumeration of the possible types of [**marketplace licenses**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc) that can enable trial periods for or perpetual usage of a [**SharePoint Add-in**](#gt_1a171365-2d99-48d4-a536-f8e534620f2c) (an [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79)), and can also limit the number of people who are able to use the app (2).

##### Field Values

###### PerpetualMultiUser

**Value:** 0

Specifies a non-trial [**marketplace license**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc) with a limit on the number of people who can use the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

###### PerpetualAllUsers

**Value:** 1

Specifies a non-trial [**marketplace license**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc) without a limit on the number of people who can use the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

###### TrialMultiUser

**Value:** 2

Specifies a trial [**marketplace license**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc) with a limit on the number of people who can use the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

###### TrialAllUsers

**Value:** 3

Specifies a trial [**marketplace license**](#gt_9bd3d896-2c0f-4323-86bf-c64be90636bc) without a limit on the number of people who can use the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

#### Microsoft.SharePoint.Client.Language

**TypeId:** {EAE9F1B5-1AE9-417B-9A8B-04A1B4C05A4B}

**ShortName:** SP.Language

Represents a natural language.

##### Properties

###### Scalar Properties

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the language as displayed in the user interface.

LanguageTag

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the corresponding [**culture name**](#gt_b43d5a25-2069-42c0-bb00-b2b70accebac) for the language.

Lcid

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6) for the language.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ListItemFormUpdateValue

**TypeId:** {03745A5A-2400-440E-92D6-DAD4AFEE30A6}

**ShortName:** SP.ListItemFormUpdateValue

Specifies the properties of a [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3) [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) and its value.

##### Properties

###### Scalar Properties

ErrorMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the error message result after validating the value for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

FieldName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**field internal name**](#gt_d205a998-09e7-4e3c-944b-6df2a38baa42) for a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

FieldValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a value for a [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

HasException

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether there was an error result after validating the value for the [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.MenuNode

**TypeId:** {B85A901B-328E-4378-922F-4F9AE35B36E1}

**ShortName:** SP.MenuNode

Represents a navigation node in the navigation hierarchy. A navigation hierarchy is a tree structure of navigation nodes.

##### Properties

###### Scalar Properties

CustomProperties

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read/Write

Contains key value pairs, where both the key and value MUST be of type [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe).

The keys SHOULD be prefixed with "Nav\_", "\_Nav\_" or "\_Sys\_Facet\_".

FriendlyUrlSegment

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the navigation node relative to the URL of the parent navigation node.

IsHidden

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the node will be hidden in the navigation menu. During editing, all nodes temporarily become visible so that they can be edited.

Key

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the identifier for the navigation node in the menu tree. If the navigation node does not exist on the protocol server, this value MUST be an empty string.

It MUST NOT be NULL.

Nodes

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.MenuNode

**Accessibility:** Read/Write

Specifies an array of child nodes.

NodeType

**Type:** Microsoft.SharePoint.Client.MenuNodeType

**Accessibility:** Read/Write

Specifies the type of the navigation node.

SimpleUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

If the **NodeType** (section [3.2.5.244.1.1.6](#Section_22b7047e75ee434b95e39647afad3425)) property is set to "SimpleLink", this property represents the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the navigation node. The URL can be relative or absolute. If the value is a relative URL, it can begin with URL tokens "~site" and "~sitecollection". These tokens indicate that the URL is either relative to the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) or to the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) respectively. If the **NodeType** (section 3.2.5.244.1.1.6) property is not set to "SimpleLink", the value MUST be an empty string.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title of the navigation node. The value is in the preferred language of the user, if available, or is in the default language of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) as a fallback.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.MenuNodeType

**ShortName:** SP.MenuNodeType

**Flag:** false

Represents the different types of menu nodes.

##### Field Values

###### SimpleLink

**Value:** 0

Standard navigation menu node. If the URL is blank, then the node acts as a menu caption with no hyperlink.

###### FriendlyUrl

**Value:** 1

Special [**taxonomy navigation**](#gt_53507cea-1ae1-4f09-ba81-8c9aeac41e57) menu node that defines a user friendly [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1).

#### Microsoft.SharePoint.Client.MenuState

**TypeId:** {B85A901B-328E-4378-922F-4F9AE35B36E0}

**ShortName:** SP.MenuState

A menu tree which can be shown in the [**Quick Launch**](#gt_a8e96ff8-7028-47b4-afaa-4d06213d3bc8) of a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

FriendlyUrlPrefix

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) relative [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the root node of the menu tree.

Nodes

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.MenuNode

**Accessibility:** Read/Write

The child nodes of the root node of the menu tree.

SimpleUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

If the **NodeType** property (section [3.2.5.244.1.1.6](#Section_22b7047e75ee434b95e39647afad3425)) of the menu tree root node is set to "SimpleLink", this property represents the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the root node. The URL can be relative or absolute. If the value is a relative URL, it can begin with URL tokens "~site" and "~sitecollection". These tokens indicate that the URL is either relative to the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) or to the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) respectively. If the **NodeType** property (section 3.2.5.244.1.1.6) of the menu tree root node is not set to "SimpleLink", this value MUST be NULL.

SPSitePrefix

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Defines the text that SHOULD be substituted for "~sitecollection/" in relative links (such as "~sitecollection/Pages/MyPage.aspx ").

SPWebPrefix

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Defines the text that SHOULD be substituted for "~site/" in relative links (such as "~site/Pages/MyPage.aspx").

StartingNodeKey

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the identifier for the root node in the menu tree.

StartingNodeTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title of the root node in the menu tree.

Version

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies an implementation-specific value that the protocol server uses to detect external changes.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.ObjectSharingInformationUser

**TypeId:** {F7B7FE66-58A7-4843-882D-99AF0D97992B}

**ShortName:** SP.ObjectSharingInformationUser

Contains information about a [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) with whom a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is shared. It can be a user or a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

##### Properties

###### Scalar Properties

Department

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the department for the user.

It MUST be NULL or empty if the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) is a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

Email

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the email address for the user.

It MUST be NULL or empty if the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) is a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

Id

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the identifier of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

JobTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the job title of the user.

It MUST be NULL or empty if the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) is a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name of the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

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

Picture

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the picture [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the user.

It MUST be NULL or empty if the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) is a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

SipAddress

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the SIP address of the user.

It MUST be NULL or empty if the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) is a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

CustomRoleNames

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the custom [**role**](#gt_8b0f612e-1393-4768-981f-23b40e3f9c28) names that the user has for a [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

It MUST be NULL or empty for a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) that is not a document.

HasEditPermission

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) has Edit permission for a [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

It MUST be false for a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) that is not a document.

HasViewPermission

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) has View permission for a [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

It MUST be false for a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) that is not a document.

IsSiteAdmin

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether user is a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) administrator.

It MUST be false if the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) is a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

LoginName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the login name for the [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0).

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

IsDomainGroup

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the user is a DomainGroup.

IsMemberOfGroup

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the user is a member of SPGroup.

###### ObjectPath Properties

User

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

Specifies the user with whom a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is shared.

Principal

**Type:** Microsoft.SharePoint.Client.Principal

**Accessibility:** Read Only

The [**principal**](#gt_8492780e-99e2-47ba-8553-aedb8de9f9c0) with whom a [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff) is shared. It is either a user or a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.OpenWebOptions

**ShortName:** SP.OpenWebOptions

**Flag:** true

The **OpenWebOptions** type specifies if additional navigation information is to be returned with the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Field Values

###### None

**Value:** 0

This value specifies that no additional navigation information is to be returned with the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### InitNavigationCache

**Value:** 1

This value specifies that the navigation information is to be returned with the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

#### Microsoft.SharePoint.Client.RequestVariable

**TypeId:** {5806D374-4904-49E9-A73F-3265EE2E06C6}

**ShortName:** SP.RequestVariable

Specifies a variable that can be used while processing requests between protocol server and protocol client.

##### Properties

###### Scalar Properties

Value

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The value of this request variable.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Append

**Return Type:** None

Appends a value to the value of this request variable.

**Parameters:**

*value:* The value to be appended to the current value of this request variable.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Set

**Return Type:** None

Sets the value of this request variable.

**Parameters:**

*value:* The value to be set for this request variable.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

###### ObjectPath Methods

CSOM Constructor

Instantiates an instance of type **RequestVariable** (section [3.2.5.249](#Section_434971ccffc940a1bfdbfba792470f3b)).

**Parameters:** None

#### Microsoft.SharePoint.Client.SiteUrl

**TypeId:** {D7DA1187-8020-42EC-97F4-823AC965AC75}

**ShortName:** SP.SiteUrl

Represents a [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.UserIdInfo

**TypeId:** {C5C3AE1A-63B6-4F25-A887-54B0B20A28E2}

**ShortName:** SP.UserIdInfo

Contains an identity provider’s unique identifier information.

##### Properties

###### Scalar Properties

NameId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the identity provider’s unique identifier.

NameIdIssuer

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the identity provider’s display name as registered in a [**farm**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.Utilities.SPWOPIFrameAction

**ShortName:** SP.Utilities.SPWOPIFrameAction

**Flag:** false

Specifies distinct operations that are available for the [**list item**](#gt_90e59c46-7c1b-473d-b949-f66e9ce029c3).

##### Field Values

###### View

**Value:** 0

Requests a browser-based viewing experience.

###### Edit

**Value:** 1

Requests a browser-based editing experience.

###### MobileView

**Value:** 2

Requests a mobile browser-based viewing experience.

###### InteractivePreview

**Value:** 3

Requests a browser-based previewing experience, suitable for use in an iFrame.

###### Syndicate

**Value:** 4

Opens the item in syndicate mode.

###### LegacyWebService

**Value:** 5

Opens the item in legacy web service mode.

#### Microsoft.SharePoint.Navigation.REST.NavigationServiceRest

**TypeId:** {8FE28B7A-6EBF-4F28-B564-5F0729301FAC}

**ShortName:** Microsoft.SharePoint.Navigation.REST.NavigationServiceRest

The entry point for REST-based navigation service operations.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

MenuNodeKey

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the unique key for a node within the menu tree. If a key cannot be found, an exception is returned.

**Parameters:**

*currentUrl:* A URL relative to the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) identifying the node within the menu tree.

Type: CSOM String

*mapProviderName:* The name identifying a provider to use for the look up.[<235>](#Appendix_A_235" \o "Product behavior note 235)

Type: CSOM String

MenuState

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

Returns the menu tree rooted at the specified root node for a given provider.

**Parameters:**

*menuNodeKey:* A unique key identifying the node that will be used as root node in the returned result.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*mapProviderName:* The name identifying the provider to use. [<236>](#Appendix_A_236" \o "Product behavior note 236)

Type: CSOM String

*depth:* The number of levels to include in the returned site map. If no value is specified, a depth of 10 is used.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*customProperties:* A comma separated list of custom properties to request. The character "\" is used to escape commas, allowing comma to be part of the property names.

Type: CSOM String

###### ObjectPath Methods

CSOM Constructor

Instantiates an instance of type **NavigationServiceRest** (section [3.2.5.253](#Section_a0a9bbc405af4f73ae03543e6a55aa0b)).

**Parameters:** None

#### Microsoft.SharePoint.Client.UpgradeInfo

**TypeId:** {A012E5FA-A28F-4232-9561-C4033F61C889}

**ShortName:** SP.UpgradeInfo

A class containing [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade information.

##### Properties

###### Scalar Properties

ErrorFile

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the location of the file that contains upgrade errors.

Errors

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of errors encountered during the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade.

LastUpdated

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the **DateTime** of the latest upgrade progress update.

LogFile

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the location of the file that contains upgrade log.

RequestDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the **DateTime** when the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade was requested.

RetryCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies how many times the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade was attempted.

StartTime

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the **DateTime** when the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade was started.

Status

**Type:** Microsoft.SharePoint.Client.UpgradeStatus

**Accessibility:** Read Only

Specifies the current [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade status.

UpgradeType

**Type:** Microsoft.SharePoint.Client.UpgradeType

**Accessibility:** Read Only

Specifies the type of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade type. The type can be either a build-to-build upgrade, or a version-to-version upgrade.

Warnings

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of warnings encountered during the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.UpgradeStatus

**ShortName:** SP.UpgradeStatus

**Flag:** false

Specifies the status of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) upgrade.

##### Field Values

###### None

**Value:** 0

Upgrade has not started.

###### InProgress

**Value:** 1

Upgrade is in progress.

###### Failed

**Value:** 2

Upgrade has failed.

###### Completed

**Value:** 3

Upgrade has completed successfully.

#### Microsoft.SharePoint.Client.AppInstanceErrorDetails

**TypeId:** {E1EE83CD-B0A5-4F57-A10C-5BCC11EB1C69}

**ShortName:** SP.AppInstanceErrorDetails

Specifies details about the error encountered during a lifecycle operation of an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

##### Properties

###### Scalar Properties

CorrelationId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

Specifies the unique identifier of the lifecycle operation associated with the error.

ErrorDetail

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the detailed error message.

ErrorType

**Type:** Microsoft.SharePoint.Client.AppInstanceErrorType

**Accessibility:** Read/Write

Specifies the type of error as specified in section [3.2.5.258](#Section_280590fd741f4b0ca86472d3db9988bc).

ErrorTypeName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name for the error type.

ExceptionMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the exception message that caused the error.

Source

**Type:** Microsoft.SharePoint.Client.AppInstanceErrorSource

**Accessibility:** Read/Write

Specifies the source of the error as specified in section [3.2.5.257](#Section_8013d48c84e24aaba43d5a21333f7cc2).

SourceName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the name for the source of error.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppInstanceErrorSource

**ShortName:** SP.AppInstanceErrorSource

**Flag:** false

Specifies the source of error for the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle operation.

##### Field Values

###### Common

**Value:** 0

The error originated from none of the well-defined sources.

###### AppWeb

**Value:** 1

The error originated from an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle operation on the [**app(2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79) [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

###### ParentWeb

**Value:** 2

The error originated from an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle operation on the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that contains the app instance.

###### RemoteWebSite

**Value:** 3

The error originated from an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle remote system operation outside of SharePoint.

###### Database

**Value:** 4

The error originated from an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle database operation.

###### OfficeExtension

**Value:** 5

The error originated from an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle operation associated with [**Office Add-in**](#gt_8212530d-483d-4917-88bf-ab412b3dc178).

###### EventCallouts

**Value:** 6

The error originated from an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle operation on a remote event receiver.

###### Finalization

**Value:** 7

The error originated from the final step of an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) lifecycle operation.

#### Microsoft.SharePoint.Client.AppInstanceErrorType

**ShortName:** SP.AppInstanceErrorType

**Flag:** false

Specifies the type of error that occurred during lifecycle operation for an [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c).

##### Field Values

###### Transient

**Value:** 0

A transient or intermittent error occurred during lifecycle operation.

###### Configuration

**Value:** 1

An error related to configuration occurred during lifecycle operation.

###### App

**Value:** 2

An error related to a bad [**app package**](#gt_91688056-5e4f-4bad-9329-c7d6b0aeebff) occurred during lifecycle operation.

#### Microsoft.SharePoint.Client.CompatibilityRange

**TypeId:** {3A64E199-FBE8-4277-960B-9067471CF64B}

**ShortName:** SP.CompatibilityRange

Specifies a range of compatibility levels.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AccessRequests

**TypeId:** {E7DAE9F6-8AA5-4B86-92C8-61941D774C44}

**ShortName:** SP.AccessRequests

Provides functionality to operate on access requests and external user invitations.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

ChangeRequestStatus

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

This method changes the status of an access request. The user executing this method MUST be in the associated site owners group.

**Parameters:**

*itemId:* The identifier of the access request.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

This MUST be a non-negative integer id of a valid item in the list.

*newStatus:* The new status for the request.

Type: CSOM Int32

This MUST be an integer in the range 0 through 5.

*convStr:* A message to include with this update.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*permType:* The new permission type for this request.

Type: CSOM String

The values MUST be one of "Role Definition" or "SharePoint Group".

*permissionLevel:* The new permission level for this request.

Type: CSOM Int32

Based on what the *permType* is, the value MUST be a valid **ID** property (section [3.2.5.76.1.1.8](#Section_bdc516344d734a2cb6389facbf88f032)) of an existing site group or a valid **ID** property (section [3.2.5.113.1.1.4](#Section_fb14b3aaf73e431499e3afd5d46c7fc1)) pointing to a role definition.

ChangeRequestStatusBulk

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Changes the status of a list of access requests. The user executing this method MUST be in the associated site owners group.

**Parameters:**

*requestIds:* The list of identifiers of the access requests.

Type: [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

This array MUST contain at least one valid non negative integer. It MUST NOT be NULL. It MUST NOT be an empty array.

*newStatus:* The new status for the access requests.

Type: CSOM Int32

It MUST be an integer in the range 0 through 5. The status code MUST be one of the following:

| Status code | Status description |
| --- | --- |
| **0** | The access request or invitation is pending. |
| **1** | The access request has been approved. |
| **2** | The invitation has been accepted. |
| **3** | The access request has been denied. |
| **4** | The invitation has expired. |
| **5** | The invitation has been revoked. |

UpdateConversation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Updates a conversation in a request.

**Parameters:**

*itemId:* The identifier of the conversation.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

*convStr:* A message to include with this update.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*web:* The [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) containing the conversation.

Type: Microsoft.SharePoint.Client.Web

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppContextSite

**TypeId:** {5530F782-6A0D-41EC-BFD9-2CB628FE1557}

**ShortName:** SP.AppContextSite

Specifies the request context information for a [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) when a [**SharePoint Add-in**](#gt_1a171365-2d99-48d4-a536-f8e534620f2c) accesses that site collection.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

Site

**Type:** Microsoft.SharePoint.Client.Site

**Accessibility:** Read Only

Specifies the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that is the target of the request from an [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

It MUST NOT be NULL.

Web

**Type:** Microsoft.SharePoint.Client.Web

**Accessibility:** Read Only

Specifies the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) that is the target of the request from an [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

It MUST NOT be NULL.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

CSOM Constructor

Instantiates an instance of type **AppContextSite** (section [3.2.5.261](#Section_95e0eca952c84b119dcec925126da8a6)).

**Parameters:**

*siteUrl:* The [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85) for the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.Analytics.AnalyticsUsageEntry

**TypeId:** {47228DF5-E073-47CA-97A8-A0537B77A1DF}

**ShortName:** SP.Analytics.AnalyticsUsageEntry

Specifies an analytics usage entry to log user or system events.[<237>](#Appendix_A_237" \o "Product behavior note 237)

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

LogAnalyticsAppEvent

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Creates and logs an analytics event into the analytics pipeline.

**Parameters:**

*appEventTypeId:* The event type identifier of the analytics event to be created.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*itemId:* The identifier of the item for which the event is being logged.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

MUST be less than or equal to 260 characters.

LogAnalyticsAppEvent2

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Creates and logs an analytics event into the analytics pipeline with additional parameters.

**Parameters:**

*appEventTypeId:* The event type identifier of the analytics event to be created.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*itemId:* The identifier of the item for which the event is being logged.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

MUST be less than or equal to 260 characters.

*rollupScopeId:* The identifier of a rollup scope. Events for different items with the same rollup scope can be aggregated together at that rollup scope in addition to being counted just at the item scope.

Type: CSOM GUID

*siteId:* The identifier of the item's site.

Type: CSOM GUID

*userId:* The identifier of the user generating the event.

Type: CSOM String

MUST be less than or equal to 260 characters.

LogAnalyticsEvent

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Creates and logs an analytics event into the analytics pipeline.

**Parameters:**

*eventTypeId:* The event type identifier of the analytics event to create.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

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.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

MUST be less than or equal to 260 characters.

LogAnalyticsEvent2

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Creates and logs an analytics event into the analytics pipeline with additional parameters.

**Parameters:**

*eventTypeId:* The event type identifier of the analytics event to create

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

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.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

MUST be less than or equal to 260 characters.

*rollupScopeId:* The identifier of a rollup scope. Events for different items with the same rollup scope can be aggregated together at that rollup scope in addition to being counted just at the item scope.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*siteId:* The identifier of the item's site.

Type: CSOM GUID

*userId:* The identifier of the user generating the event.

Type: CSOM String

MUST be less than or equal to 260 characters.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.UrlZone

**ShortName:** SP.UrlZone

**Flag:** false

Represents a location in the topology of the [**farm**](#gt_aede9dc7-b6a1-4fac-bb15-8c8307250b8a).

##### Field Values

###### DefaultZone

**Value:** 0

Specifies the default zone used for requests unless another zone is specified.

###### Intranet

**Value:** 1

Specifies an intranet zone.

###### Internet

**Value:** 2

Specifies an internet zone.

###### Custom

**Value:** 3

Specifies a custom zone.

###### Extranet

**Value:** 4

Specifies an extranet zone.

#### Microsoft.SharePoint.Client.WebParts.TileData

**TypeId:** {9786D53B-4147-4E57-9D94-1D9F335D42B3}

**ShortName:** SP.WebParts.TileData

Represents a Tile that describes a graphical link the user can click.

##### Properties

###### Scalar Properties

BackgroundCollageImageLocations

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the location of the images used to render the tile background, if it is a tile with a split background.

BackgroundImageLocation

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the Tile background image.

BackgroundImageRendersAsIcon

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the background image renders as an icon, positioned just above the overlay.

BodyText

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the text written in the body of the tile.

Description

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the text that describes a Tile.

HoverDisabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the tile's hover behavior SHOULD be disabled.

ID

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Species a unique number that represents the Tile in a list of Tiles.

IsWide

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the tile is a wide tile.

LinkLocation

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) location of the navigation that happens on Tile click.

TileOrder

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Specifies a number that indicates the ordering of the Tile in a list of Tiles.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the title of the Tile.

TransparentOverlay

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the tile's title overlay SHOULD be completely transparent.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.AppPrincipal

**TypeId:** {A19A4C61-D4C0-4100-9D47-A04BE33AF6F1}

**ShortName:** SP.AppPrincipal

Represents a single [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

##### Properties

###### Scalar Properties

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The display name of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

EndpointAuthorities

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The endpoints of the app.

The value is a list of hostname[:port].

NameIdentifier

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The name identifier of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

RedirectAddresses

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The redirect URI associated with the app.

The authorization server sends the end user back to the redirect URI once the access is granted or denied.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppPrincipalConfiguration

**TypeId:** {358F59EE-7E98-4CC0-9F40-A160CCF3879F}

**ShortName:** SP.AppPrincipalConfiguration

Represents the configuration associated with an app principal.

##### Properties

###### Scalar Properties

ApplicationEndpointAuthorities

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The list of endpoint authorities exposed by the principal.

ApplicationPrincipalNames

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The list of principal names.

NameIdentifier

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The name of the principal.

RedirectAddresses

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The list of redirect addresses of the principal.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.AppPrincipalCredential

**TypeId:** {9C0B9F8A-D87B-431D-BC10-D0F0B4AFC79C}

**ShortName:** SP.AppPrincipalCredential

Represents a credential belonging to an [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

CreateFromKeyGroup

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Create an instance of **SPAppPrincipalCredential** that wraps a key group identifier.

**Parameters:**

*keyGroupIdentifier:* The key group identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

CreateFromSymmetricKey

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Create an instance of **SPAppPrincipalCredential** that wraps a symmetric key.

**Parameters:**

*symmetricKey:* The symmetric key of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) credential.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*notBefore:* The earliest time when the key is valid.

Type: [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

*notAfter:* The time when the key expires.

Type: CSOM DateTime

#### Microsoft.SharePoint.Client.AppPrincipalCredentialReference

**TypeId:** {AAF308B2-EBDD-4A5B-BE65-01BB0EC8C5BE}

**ShortName:** SP.AppPrincipalCredentialReference

Represents a reference to a credential for an [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

##### Properties

###### Scalar Properties

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

The unique identifier of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) credential.

NameIdentifier

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The name of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) credential.

NotAfter

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read/Write

The earliest time when the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) credential is valid.

NotBefore

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read/Write

The time when the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) credential expires.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.AppPrincipalIdentityProvider

**TypeId:** {3CC457AE-D404-4747-8B95-C6F86BFD1842}

**ShortName:** SP.AppPrincipalIdentityProvider

Represents an identity provider for [**app principals**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

External

**Type:** Microsoft.SharePoint.Client.AppPrincipalIdentityProvider

**Accessibility:** Read Only

The external [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) identity provider.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppPrincipalManager

**TypeId:** {1DAEE121-93EA-40E6-AAD2-15252287F09A}

**ShortName:** SP.AppPrincipalManager

Represents a top level object used to manage [**app principals**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

AddAppPrincipalCredential

**Return Type:** None

Add a new credential for an existing [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

**Parameters:**

*appPrincipal:* The app principal.

Type: Microsoft.SharePoint.Client.AppPrincipal

*credential:* The credential to add.

Type: Microsoft.SharePoint.Client.AppPrincipalCredential

DeleteAppPrincipal

**Return Type:** None

Delete an app principal.

**Parameters:**

*appPrincipal:* The [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) to delete.

Type: Microsoft.SharePoint.Client.AppPrincipal

DeleteAppPrincipalCredential

**Return Type:** None

Delete an existing credential for an app principal.

**Parameters:**

*credentialReference:* A reference to the credential to be deleted

Type: Microsoft.SharePoint.Client.AppPrincipalCredentialReference

GetAppPrincipalConfiguration

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

Get the configuration associated with the specified [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

**Parameters:**

*appPrincipal:* The app principal

Type: Microsoft.SharePoint.Client.AppPrincipal

GetAppPrincipalCredentials

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.AppPrincipalCredentialReference

Get a reference to each credential associated with an [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

**Parameters:**

*appPrincipal:* The app principal

Type: Microsoft.SharePoint.Client.AppPrincipal

SetAppPrincipalConfiguration

**Return Type:** None

Set the configuration associated with the specified app principal.

**Parameters:**

*appPrincipalConfiguration:* The configuration to be associated with the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

Type: Microsoft.SharePoint.Client.AppPrincipalConfiguration

###### ObjectPath Methods

CreateAppPrincipal

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

Create an app principal.

**Parameters:**

*parameters:* The collection of input parameters used to create a new [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

Type: Microsoft.SharePoint.Client.ExternalAppPrincipalCreationParameters

GetManager

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Create a new instance of AppPrincipalManager.

**Parameters:**

*web:* The context object required to manage app principals.

Type: Microsoft.SharePoint.Client.Web

LookupAppPrincipal

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

Looks up an [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

**Parameters:**

*identityProvider:* The identity provider of the app principal.

Type: Microsoft.SharePoint.Client.AppPrincipalIdentityProvider

*appPrincipalName:* The app principal name

Type: Microsoft.SharePoint.Client.AppPrincipalName

#### Microsoft.SharePoint.Client.AppPrincipalName

**TypeId:** {2F631229-B71E-4DDF-83D6-96D290D0FC57}

**ShortName:** SP.AppPrincipalName

Represents the name of an [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

CreateFromAppPrincipalIdentifier

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Creates an instance from the specified [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) identifier.

**Parameters:**

*appPrincipalIdentifier:* The app principal identifier of the desired app principal.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

CreateFromNameIdentifier

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Creates an instance from the specified name identifier.

**Parameters:**

*nameIdentifier:* The name identifier of the desired [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.ExternalAppPrincipalCreationParameters

**TypeId:** {5D3A2EAE-4870-414E-B9AE-8F1904B28408}

**ShortName:** SP.ExternalAppPrincipalCreationParameters

Represents the parameters used to create a new external [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

##### Properties

###### Scalar Properties

AppIdentifier

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The unique identifier of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

ApplicationEndpointAuthorities

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The list of hostname[:port] strings that expose app endpoints.

DisplayName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The display name of the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

RedirectAddresses

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The list of redirect addresses for the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

TrustedForDelegation

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

This value is true if and only if the [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64) is trusted for delegation.

###### ObjectPath Properties

Credential

**Type:** Microsoft.SharePoint.Client.AppPrincipalCredential

**Accessibility:** Read/Write

The credential to associate with the new [**app principal**](#gt_25d5679b-f794-4252-bb58-a42ae55aff64).

#### Microsoft.SharePoint.Client.SiteHealth.SiteHealthStatusType

**ShortName:** SP.SiteHealth.SiteHealthStatusType

**Flag:** false

Specifies the success or failure mode of a site collection health rule.[<238>](#Appendix_A_238" \o "Product behavior note 238)

##### Field Values

###### Passed

**Value:** 0

Specifies that the site collection health rule passed. Site collection upgrade is not blocked by this site collection health rule.

###### 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.

###### FailedError

**Value:** 2

Specifies that the site collection heath rule failed with an error. Site collection upgrade is blocked by this site collection health rule.

#### Microsoft.SharePoint.Client.Utilities.LogAppErrorResult

**ShortName:** SP.Utilities.LogAppErrorResult

**Flag:** false

Specifies the success or failure result of logging a custom error by an [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).[<239>](#Appendix_A_239" \o "Product behavior note 239)

##### Field Values

###### Success

**Value:** 0

Specifies that the error logging succeeded.

###### ErrorsThrottled

**Value:** -1

Specifies that the current error was not logged successfully because there are too many errors reported.

###### AccessDenied

**Value:** -2

Specifies that the current error was not logged successfully because an authorization error occurred.

#### Microsoft.SharePoint.Client.RenderListDataParameters

**TypeId:** {AE2D69B3-12FA-4ECB-BA76-BBA24D51E83D}

**ShortName:** SP.RenderListDataParameters

Specifies the parameters to be used to render list data as a [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26) string.

##### Properties

###### Scalar Properties

FolderServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of a [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) from which to return items.

Paging

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the paging information.

RenderOptions

**Type:** Microsoft.SharePoint.Client.RenderListDataOptions

**Accessibility:** Read/Write

Specifies the type of output to return.

ViewXml

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**CAML**](#gt_e7702f92-e7e2-47b1-9659-91b4e25dfe3d) view [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.TenantAppUtility\_manual

**TypeId:** {A7E15A67-957E-459b-8903-E1E42FA52AB1}

**ShortName:** SP.TenantAppUtility

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None

##### Methods

###### Scalar Methods

None

###### ObjectPath Methods

GetTenantAppInformationCollection

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** List<Microsoft.SharePoint.Client.TenantAppInformation>

Get a list of tenant app information.

**Parameters:**

*web:* The site where to get the tenant apps.

Type: Microsoft.SharePoint.Client.Web

*lcid:* The locale supported by the tenant apps.

Type: int

#### Microsoft.SharePoint.Client.TenantAppInformation\_manual

**TypeId:** {52E6BC7D-825F-45B5-9F39-7A11723319DF}

**ShortName:** SP.TenantAppAppInformation

##### Properties

###### Scalar Properties

Id

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The Id of an app.

CreationTime

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

The creation time of an app.

LaunchUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The launch URL of an app.

RemoteAppUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The URL of the remote host of an app.

AppPrincipalId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The OAuth Id of an app.

Status

**Type:** Microsoft.SharePoint.Client.AppInstanceStatus

**Accessibility:** Read Only

The status of the [**app instance**](#gt_16e39006-3436-4e44-b374-2de11f03544c) as defined in section [3.2.5.238](#Section_1dba2ba20ec2416d9f229b60291f8a8a).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The title of an app.

ProductId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

The product Id of an app.

IconAbsoluteUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The absolute URL of an app’s icon.

IconFallbackAbsoluteUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The absolute fallback URL of an app’s icon.

AppWebFullUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The full URL of an app’s web.

PackageFingerprint

**Type:** [**CSOM Stream**](#gt_691a8a54-ed61-4234-a1ac-8f04c95f1d9a)

**Accessibility:** Read Only

The fingerprint of an app’s package.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppTile

**TypeId:** {C84B5B09-0AB8-43F0-8A01-6A7A2EC4C7B9}

**ShortName:** SP.AppTile

Represents information about an app tile.

##### Properties

###### Scalar Properties

AppType

**Type:** Microsoft.SharePoint.Client.AppType

**Accessibility:** Read Only

The type of the app represented by this app tile.

ChildCount

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

The number of children contained in the app represented by this app tile, if applicable.

LastModified

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The date/time when the app this app tile represented was last changed, if applicable.

Target

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The server address of the app this app tile represents.

Thumbnail

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The server address of the thumbnail for the app tile.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The server address of the app this app tile represents.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppTileCollection

**TypeId:** {8DD21099-80DB-4719-B12A-555456F8930C}

**ShortName:** SP.AppTileCollection

Represents a collection of app tiles.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AppType

**ShortName:** SP.AppType

**Flag:** false

The type of app tile.

##### Field Values

###### Doclib

**Value:** 0

Represents information about a document library.

###### List

**Value:** 1

Represents information about a list.

###### Tenant

**Value:** 2

Represents information about a tenant-managed app.

###### Instance

**Value:** 3

Represents information about a web administrator-managed app.

###### Feature

**Value:** 4

Represents information about a feature that behaves like an app.

###### CommonList

**Value:** 5

Represents information about a list with a common base template, other than DocLib or GenericList.

#### Microsoft.SharePoint.Client.Audit

**TypeId:** {1307502C-2A94-4C1E-8BA6-30DA4B0391F1}

**ShortName:** SP.Audit

Enables auditing of how site collections, sites, lists, folders, and list items are accessed, changed, and used.

##### Properties

###### Scalar Properties

AuditFlags

**Type:** Microsoft.SharePoint.Client.AuditMaskType

**Accessibility:** Read/Write

Gets or sets a value indicating what kinds of events and actions are audited specifically for this object.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Update

**Return Type:** None

Updates the SharePoint database with changes to the Microsoft.SharePoint.SPAudit.AuditFlags property.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.AuditMaskType

**ShortName:** SP.AuditMaskType

**Flag:** false

Specifies what kind of actions and events are being audited for a particular site collection, site, list, folder, or list item object.

##### Field Values

###### None

**Value:** 0

No events or actions.

###### CheckOut

**Value:** 1

Check out of the object.

###### CheckIn

**Value:** 2

Check in of the object.

###### View

**Value:** 4

Viewing of the object by a user.

###### ObjectDelete

**Value:** 8

Deletion of the object.

###### Update

**Value:** 16

Update of the object.

###### ProfileChange

**Value:** 32

Change of a profile.

###### ChildDelete

**Value:** 64

Deletion of one of the object's child objects.

###### SchemaChange

**Value:** 128

Change of the object's schema.

###### SecurityChange

**Value:** 256

Change in a security configuration for the object.

###### Undelete

**Value:** 512

Reversal of the deletion of the object.

###### Workflow

**Value:** 1024

Use of the object in a workflow task.

###### Copy

**Value:** 2048

Copying the object.

###### Move

**Value:** 4096

Move of the object.

###### Search

**Value:** 8192

Search of the object.

###### All

**Value:** -1

All types of events and actions.

#### Microsoft.SharePoint.Client.CreatableItemInfo

**TypeId:** {E9797D9D-2304-4C12-BC6B-4A4E9D7A0EA6}

**ShortName:** SP.CreatableItemInfo

Information on a creatable item: what the item is and where to go to create it. Alternatively, the information provided here can be used to call **CreateDocument** (section [3.2.5.79.2.2.9](#Section_1d2a60f327694d2fb0d88221453d9686)) or **CreateDocumentAndGetEditLink** (section [3.2.5.79.2.1.13](#Section_4a9b7ac8715c45aba9d1baec77824315)).

##### Properties

###### Scalar Properties

DocumentTemplate

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

The enumeration value of this item's type, corresponding to **DocumentTemplateType** (section [3.2.5.288](#Section_ec1eb45619544a20bca8e6598c76b24b))**.**

FileExtension

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The file extension of the item to be created.

ItemType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The name of the item's type (e.g. Word or PowerPoint).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.CreatableItemInfoCollection

**TypeId:** {9B16C27E-29B9-46DB-ACB0-9E36D3AB244A}

**ShortName:** SP.CreatableItemInfoCollection

Represents a collection of **CreatableItemInfo** (section [3.2.5.283](#Section_a9ad0648b6444074ba4b984c97822ddc)) objects.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.CreatablesInfo

**TypeId:** {9EC9B742-583B-4A15-B1E8-23C8E0D7B6DF}

**ShortName:** SP.CreatablesInfo

Returns an object that describes what this [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) can create, and a collection of links to visit in order to create those things. If it can't create certain things, it contains an error message describing why.

The consumer MUST append the encoded [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the current page to the links returned here. (This page the link goes to needs it as a query parameter to function correctly.) The consumer SHOULD also consider appending &IsDlg=1 to the link, to remove the UI from the linked page, if desired.

##### Properties

###### Scalar Properties

CanCreateFolders

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates if the user is able to create folders in the current list. The user MUST have the appropriate permissions and the list MUST allow folder creation.

CanCreateItems

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether this list can create items (such as documents (Word/Excel/PowerPoint)) using Microsoft Office Online.

CanUploadFiles

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the user is able to upload files to this list.

CreatablesCollection

**Type:** Microsoft.SharePoint.Client.CreatableItemInfoCollection

**Accessibility:** Read Only

Represents a collection of **CreatableItemInfo** (section [3.2.5.283](#Section_a9ad0648b6444074ba4b984c97822ddc)) objects describing what can be created, one CreatableItemInfo for each creatable type.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.DlpPolicyTip

**TypeId:** {4FC085D6-53CB-4668-BC9B-AE1E54209812}

**ShortName:** SP.DlpPolicyTip

Provides information about the Data Loss Protection policy on an item so it can be shown to the user.

##### Properties

###### Scalar Properties

AppliedActionsText

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the text which states what restrictive actions have been applied to this item.

ComplianceUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) that provides additional help on the policy tip dialog.

GeneralText

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

General text that appears on the top of the policy tip dialog.

LastProcessedTime

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

The last time this item was processed for policy matches.

MatchedConditionDescriptions

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

An array that contains a description of each policy condition that has been matched.

OverrideOptions

**Type:** Microsoft.SharePoint.Client.RuleOverrideOptions

**Accessibility:** Read Only

The allowable options that someone can take to override policy matches.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.DocumentLibraryInformation

**TypeId:** {FB3DDD20-725D-4C42-8C72-34C5EFC2A0B4}

**ShortName:** SP.DocumentLibraryInformation

Specifies the information for a [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) on a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

##### Properties

###### Scalar Properties

Modified

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Identifies the modified date of the [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

ModifiedFriendlyDisplay

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Identifies a friendly display for the modified date of the [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Identifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Identifies the title of the [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35).

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.DocumentTemplateType

**ShortName:** SP.DocumentTemplateType

**Flag:** false

Specifies the type for the [**document template (1)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff) for the new [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf).

##### Field Values

###### Invalid

**Value:** 0

Invalid [**document template (1)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff).

###### Word

**Value:** 1

Word template.

###### Excel

**Value:** 2

Excel template.

###### PowerPoint

**Value:** 3

PowerPoint template.

###### OneNote

**Value:** 4

OneNote template.

###### ExcelForm

**Value:** 5

Excel-based form template.

###### Max

**Value:** 6

Maximum value to indicate a [**document template (1)**](#gt_20e70600-75a3-424c-b1ae-ce3b9f6047ff).

#### Microsoft.SharePoint.Client.EffectiveInformationRightsManagementSettings

**TypeId:** {7763BD9A-B98E-491D-82A8-252CBF76C64E}

**ShortName:** SP.EffectiveInformationRightsManagementSettings

A collection of effective [**IRM**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings on the file.

##### Properties

###### Scalar Properties

AllowPrint

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether a user can print the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

AllowScript

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether a user can run a script on the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

AllowWriteCopy

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether a user can write on a copy of the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

DisableDocumentBrowserView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether to block the [**Office Add-in**](#gt_8212530d-483d-4917-88bf-ab412b3dc178) from showing this [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b).

DocumentAccessExpireDays

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of days after which the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) will expire.

DocumentLibraryProtectionExpireDate

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the date on which the [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) protection of this [**document library**](#gt_d9f07822-aeb0-4642-ab51-95cb724fbf35) will stop.

EnableDocumentAccessExpire

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) will expire.

EnableDocumentBrowserPublishingView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether publishing view is enabled in the [**Office Add-in**](#gt_8212530d-483d-4917-88bf-ab412b3dc178).

EnableGroupProtection

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the permission of the downloaded [**document**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) is applicable to a [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac).

EnableLicenseCacheExpire

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether a user MUST verify his or her credentials after certain intervals.

GroupName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**group**](#gt_51c51c14-7f9d-4c0b-a69c-d3e059bfffac) name (email address) that the permission is also applicable to.

IrmEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) is enabled.

LicenseCacheExpireDays

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Specifies the number of days that the [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) license can be cached by the application to open the downloaded document. When these elapse, the application will connect to the **IRM** server to validate the license.

PolicyDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the permission [**policy**](#gt_52323544-69e0-4172-8921-2711cbda988e) description.

PolicyTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the permission [**policy**](#gt_52323544-69e0-4172-8921-2711cbda988e) title.

SettingSource

**Type:** Microsoft.SharePoint.Client.SPEffectiveInformationRightsManagementSettingsSource

**Accessibility:** Read Only

Specifies the source of the effective settings.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.FolderEntityData

**TypeId:** {0FFBD1DB-E28A-42AA-A6BA-CCF4F2626A6B}

**ShortName:** SP.FolderEntityData

Specifies the entity data for a [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

##### Properties

###### Scalar Properties

Overwrite

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Specifies whether the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523) is overwritten.

It MUST NOT be NULL.

ServerRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the [**server-relative URL**](#gt_e01bcfbc-89a8-4fd6-8728-d1933a49651b) of the [**list folder**](#gt_0cd79654-f6bc-40e1-85bf-834543d26523).

It MUST NOT be NULL.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.InformationRightsManagementFileSettings

**TypeId:** {F920FBE4-9C61-4E05-BB11-702126533CB4}

**ShortName:** SP.InformationRightsManagementFileSettings

Represents the [**Information Rights Management (IRM)**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings of a file.

##### Properties

###### Scalar Properties

AllowPrint

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not the user can print the downloaded document.

True if print is allowed; otherwise, it is false. The default value is false.

AllowScript

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not the user can run a script on the downloaded document.

True if the script is allowed to run; otherwise, it is false. The default value is false.

AllowWriteCopy

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not the user can write on a copy of the downloaded document.

True if write on a copy is allowed; otherwise, it is false. The default value is false.

DisableDocumentBrowserView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not to block Web Application Companion applications (WACs) from showing this document.

True if the WAC is blocked; otherwise, it is false. The default value is false.

DocumentAccessExpireDays

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Gets or sets the number of days after which the downloaded document will expire.

Specifies the document access expire days between 1 and 365 if [**IRM**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) and document access expire are both enabled; otherwise, it returns the default value.

EnableDocumentAccessExpire

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not the downloaded document will expire.

True if the downloaded document will expire; otherwise, it is false. The default value is false.

EnableDocumentBrowserPublishingView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not to enable Web Application Companion applications (WACs) to publishing view.

True if the WAC publishing view is enabled; otherwise, it is false. The default value is false.

EnableGroupProtection

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not the permission of the downloaded document is applicable to a group.

True if the group protection is enabled; otherwise, it is false. The default value is false.

EnableLicenseCacheExpire

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read/Write

Gets or sets a value indicating whether or not users verify their credentials after some intervals.

True if the license cache expire is enabled; otherwise, it is false. The default value is false.

GroupName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the group name (email address) that the permission is also applicable to.

LicenseCacheExpireDays

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read/Write

Gets or sets the number of days that the application that opens the document caches the IRM license. When these elapse, the application will connect to the IRM server to validate the license.

PolicyDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the permission policy description.

PolicyTitle

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the permission policy title.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Reset

**Return Type:** None

Resets all properties to the default value.

**Parameters:** None

Update

**Return Type:** None

Updates the document library with the changes made to the settings.

**Parameters:** None

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.IngestionTaskKey

**TypeId:** {3314041B-E208-4492-A0E9-A275FA3F6204}

**ShortName:** SP.IngestionTaskKey

Specifies key data for accessing an Azure Blob storage account and a status publishing account.

##### Properties

###### Scalar Properties

IngestionTableAccountKey

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the ingestion table account key.

IngestionTableAccountName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the ingestion table account name.

JobId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the job Id.

TaskId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the task Id.

TenantName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Gets or sets the tenant name.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.MigrationJobState

**ShortName:** SP.MigrationJobState

**Flag:** false

Enumeration containing possible migration job status values. It is used as a return type for the **GetMigrationJobStatus** (section [3.2.5.119.2.1.5](#Section_a2f3c554c840408fa5db257547a5347d)) method. Note that there is currently no way to query the job status if it has already succeeded or failed and been removed from the queue, in which case a value of None (0) is returned, so the easiest way to determine the results of the migration job in that case is to look at the log output.

##### Field Values

###### None

**Value:** 0

The migration job is no longer in the queue.

###### Queued

**Value:** 2

The migration job is in the queue.

###### Processing

**Value:** 4

The migration job is being processed.

#### Microsoft.SharePoint.Client.MountedFolderInfo

**TypeId:** {5F2BBB09-0544-46D4-B398-33BD3962D5BF}

**ShortName:** SP.MountedFolderInfo

Provides read-only properties that describe a mounted folder.

##### Properties

###### Scalar Properties

FolderUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the URL of the mounted folder.

HasEditPermission

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the current user has edit permission to the mounted folder.

ItemId

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Gets the identifier of the mounted folder.

ListTemplateType

**Type:** Microsoft.SharePoint.Client.ListTemplateType

**Accessibility:** Read Only

Gets the template type of the list that contains the mounted folder.

ListViewUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the view URL of the list that contains the mounted folder.

WebUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the URL of the web that the mounted folder is in.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.MountPoint

**TypeId:** {0489CFAD-CCD4-422D-9014-BE0F150E4389}

**ShortName:** SP.MountPoint

Provides client-callable methods for [**mount point**](#gt_513fcb37-059f-475c-a13d-e89b302f8ae8) operations.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

CreateMountPoint

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Creates a new [**mount point**](#gt_513fcb37-059f-475c-a13d-e89b302f8ae8).

**Parameters:**

*folder:* The folder that will contain the new mount point.

Type: Microsoft.SharePoint.Client.Folder

If the *folder* parameter is null, the mount point will be created in the current user's Microsoft OneDrive root folder. Currently, only folders can be [**mounted**](#gt_cc98b88f-7fd4-40f6-b315-212dc4d8378b).

*name:* The display name of the new mount point.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*targetSiteId:* The site collection identifier of the item to be mounted.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*targetWebId:* The web identifier of the item to be mounted.

Type: CSOM GUID

*targetUniqueId:* The unique identifier of the item to be mounted.

Type: CSOM GUID

GetMountedFolderUrls

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets an enumerable collection of [**mounted**](#gt_cc98b88f-7fd4-40f6-b315-212dc4d8378b) folder URLs of the [**mount points**](#gt_513fcb37-059f-475c-a13d-e89b302f8ae8) in a list.

**Parameters:**

*list:* List that contains the mount points.

Type: Microsoft.SharePoint.Client.List

###### ObjectPath Methods

GetMountedFolderInfo

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Gets information about a [**mounted folder**](#gt_7674e31e-66f7-462f-8064-df587f6af100).

**Parameters:**

*targetSiteId:* The site collection identifier of the folder to be [**mounted**](#gt_cc98b88f-7fd4-40f6-b315-212dc4d8378b).

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*targetWebId:* The web identifier of the folder to be mounted.

Type: CSOM GUID

*targetUniqueId:* The unique identifier of the folder to be mounted.

Type: CSOM GUID

#### Microsoft.SharePoint.Client.MountPointInfo

**TypeId:** {30BC42FC-5AEB-4221-9BF1-6181619B9AA0}

**ShortName:** SP.MountPointInfo

Provides read-only properties that describe a [**mount point**](#gt_513fcb37-059f-475c-a13d-e89b302f8ae8).

##### Properties

###### Scalar Properties

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the [**mount point**](#gt_513fcb37-059f-475c-a13d-e89b302f8ae8).

RedirectUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the URL that will redirect to the target [**mounted folder**](#gt_7674e31e-66f7-462f-8064-df587f6af100).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.MoveCopyUtil

**TypeId:** {C668C5CA-BBDD-435F-8008-502F3180CF20}

**ShortName:** SP.MoveCopyUtil

A container class for static move/copy methods.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

CopyFile

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Copies a file from the source location to the destination location.

**Parameters:**

*srcUrl:* A full URL that specifies the source file.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST be a URL of absolute form.

*destUrl:* A full URL that specifies the destination file.

Type: CSOM String

It MUST NOT be NULL. It MUST be a URL of absolute form.

*overwrite:* Overwrites the destination file when it exists.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPFileCheckOutException | The srcFile cannot be checked out. |
| -1 | Microsoft.SharePoint.SPFileLockException | The srcFile cannot be locked. |
| -2147467261 | System.ArgumentNullException | 1) srcUrl MUST NOT be null or empty.2) destUrl MUST NOT be null or empty. |
| -2146233086 | System.ArgumentOutOfRangeException | The srcUrl is not contained in a site. |
| -1 | System.InvalidOperationException | srcUrl and destUrl MUST NOT be the same. |
| -2147024894 | System.IO.FileNotFoundException | The file at the srcUrl MUST exist. |
| -1 | System.IO.IOException | The file at the destUrl MUST NOT exist. |

CopyFolder

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Copies a folder from a source URL to a destination URL.

**Parameters:**

*srcUrl:* A full URL that represents the source folder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST be a URL of absolute form.

*destUrl:* A full URL that represents the destination folder.

Type: CSOM String

It MUST NOT be NULL. It MUST be a URL of absolute form.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPFileCheckOutException | The srcFile cannot be checked out. |
| -1 | Microsoft.SharePoint.SPFileLockException | The srcFile cannot be locked. |
| -2147467261 | System.ArgumentNullException | 1) srcUrl MUST NOT be null or empty.2) destUrl MUST NOT be null or empty. |
| -2146233086 | System.ArgumentOutOfRangeException | The srcUrl is not contained in a site. |
| -1 | System.InvalidOperationException | srcUrl and destUrl MUST NOT be the same. |
| -2147024894 | System.IO.FileNotFoundException | The file at the srcUrl MUST exist. |
| -1 | System.IO.IOException | The file at the destUrl MUST NOT exist. |

MoveFile

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Moves a file from the source location to the destination location.

**Parameters:**

*srcUrl:* A full URL that specifies the source file.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST be a URL of absolute form.

*destUrl:* A full URL that specifies the destination file.

Type: CSOM String

It MUST NOT be NULL. It MUST be a URL of absolute form.

*overwrite:* Overwrites the destination file when it exists.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPFileCheckOutException | The srcFile cannot be checked out. |
| -1 | Microsoft.SharePoint.SPFileLockException | The srcFile cannot be locked. |
| -2147467261 | System.ArgumentNullException | 1) srcUrl MUST NOT be null or empty.2) destUrl MUST NOT be null or empty. |
| -2146233086 | System.ArgumentOutOfRangeException | The srcUrl is not contained in a site. |
| -1 | System.InvalidOperationException | srcUrl and destUrl MUST NOT be the same. |
| -2147024894 | System.IO.FileNotFoundException | The file at the srcUrl MUST exist. |
| -1 | System.IO.IOException | The file at the destUrl MUST NOT exist. |

MoveFolder

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** None

Moves a folder from a source URL to a destination URL.

**Parameters:**

*srcUrl:* A full URL that represents the source folder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL. It MUST be a URL of absolute form.

*destUrl:* A full URL that represents the destination folder.

Type: CSOM String

It MUST NOT be NULL. It MUST be a URL of absolute form.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -1 | Microsoft.SharePoint.SPFileCheckOutException | The srcFile cannot be checked out. |
| -1 | Microsoft.SharePoint.SPFileLockException | The srcFile cannot be locked. |
| -2147467261 | System.ArgumentNullException | 1) srcUrl MUST NOT be null or empty.2) destUrl MUST NOT be null or empty. |
| -2146233086 | System.ArgumentOutOfRangeException | The srcUrl is not contained in a site. |
| -1 | System.InvalidOperationException | srcUrl and destUrl MUST NOT be the same. |
| -2147024894 | System.IO.FileNotFoundException | The file at the srcUrl MUST exist. |
| -1 | System.IO.IOException | The file at the destUrl MUST NOT exist. |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.OAuth.NativeClient

**TypeId:** {5B5B3A87-6976-4485-96A7-55A324AF6CE0}

**ShortName:** SP.OAuth.NativeClient

Gets endpoints for native client authentication relative to current request.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

Authenticate

**Return Type:** None

Authentication module to handle MicrosoftOnlineCredentials.

**Parameters:** None

###### ObjectPath Methods

CSOM Constructor

Creates an instance of type **NativeClient** (section [3.2.5.298](#Section_e88f0bf60481439ab362b2b95d1707b2)).

**Parameters:** None

#### Microsoft.SharePoint.Client.ObjectSharingInformationUserCollection

**TypeId:** {1ECA4555-5715-4122-9C3D-0AB651518BC1}

**ShortName:** SP.ObjectSharingInformationUserCollection

This class contains a collection of shared with users.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.ObjectSharingSettings

**TypeId:** {9CA08AFE-29FA-4FAF-86AF-5BCB06E41969}

**ShortName:** SP.ObjectSharingSettings

This class contains the information necessary to read and change the sharing status of a SharePoint object. It also contains a reference to SharePoint specific settings denoted by "SharePointSettings".

##### Properties

###### Scalar Properties

AccessRequestMode

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the sharing context operates under the access request mode.

CanCurrentUserManageOrganizationReadonlyLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can create or disable an organization View link.

CanCurrentUserManageOrganizationReadWriteLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can create or disable an organization Edit link.

CanCurrentUserManageReadonlyLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can create or disable an anonymous View link.

CanCurrentUserManageReadWriteLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can create or disable an anonymous Edit link.

CanCurrentUserRetrieveOrganizationReadonlyLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can retrieve an organization View link, if one has already been created.

If one has not been created, the user cannot create one

CanCurrentUserRetrieveOrganizationReadWriteLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can retrieve an organization Edit link, if one has already been created.

If one has not been created, the user cannot create one.

CanCurrentUserRetrieveReadonlyLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can retrieve an anonymous View link, if one has already been created.

If one has not been created, the user cannot create one.

CanCurrentUserRetrieveReadWriteLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can retrieve an anonymous Edit link, if one has already been created.

If one has not been created, the user cannot create one.

CanCurrentUserShareExternally

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can share outside the tenancy, by inviting external users.

CanCurrentUserShareInternally

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can only share within the tenancy

CanSendEmail

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether email invitations can be sent.

CanSendLink

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the current user can make use of Share-By-Link.

CanShareFolder

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

**[Boolean](#gt_1d79d7a7-ba2c-4b34-931c-7ba8057c87b2)** indicating whether the folder object can be shared.

GroupsList

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read Only

A [**dictionary**](#gt_0ac36b78-7745-41f5-9198-98bc46b00c9a) object that lists the display name and the id of the SharePoint groups.

HasEditRole

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the site has the standard "[**Editor**](#gt_0010ac88-303d-4f19-8834-45fe73f4d676)" role.

HasReadRole

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the site has the standard "Reader" role.

InheritingWebLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the site from which the shared object inherits [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b).

IsGuestUser

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the current user is a guest user.

IsPictureLibrary

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the object to share is a [**picture library**](#gt_b59f2382-bf71-4869-b429-2979ecc805a8).

IsUserSiteAdmin

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the current user is a [**site collection administrator**](#gt_a96ca912-e0f0-4975-be1a-54a7e72c60f4).

ItemId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The list item ID (if applicable).

ItemName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The object title.

ItemUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The server relative object [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1).

ListId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

The unique ID of the [**parent list**](#gt_9f5a68a7-f499-4163-886b-9f176a682f27) (if applicable).

PermissionsOnlyMode

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the sharing context operates under the [**permissions**](#gt_12f72ec4-f971-4a49-b1da-7b81b8e3e20b) only mode (that is, adding to a group or hiding the groups drop-down in the SharePoint UI).

Roles

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read Only

A dictionary object that lists the display name and the id of the SharePoint regular roles.

ShareByEmailEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean flag denoting if guest users are enabled for the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

ShowExternalSharingWarning

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the client logic SHOULD warn the user that they are about to share with external email addresses.

SimplifiedRoles

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read Only

A [**dictionary**](#gt_0ac36b78-7745-41f5-9198-98bc46b00c9a) object that lists the display name and the id of the SharePoint simplified roles (edit, view).

SupportsAclPropagation

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the object to share supports [**ACL**](#gt_9f92aa05-dd0a-45f2-88d6-89f1fb654395) propagation.

WebUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) pointing to the containing SPWeb object.

###### ObjectPath Properties

ObjectSharingInformation

**Type:** Microsoft.SharePoint.Client.ObjectSharingInformation

**Accessibility:** Read Only

Contains information about the sharing state of a shareable object.

SharePointSettings

**Type:** Microsoft.SharePoint.Client.SharePointSharingSettings

**Accessibility:** Read Only

An object that contains the SharePoint UI specific sharing settings.

SharingPermissions

**Type:** Microsoft.SharePoint.Client.SharingPermissionInformationCollection

**Accessibility:** Read Only

A list of SharingPermissionInformation objects that can be used to share.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.PickerSettings

**TypeId:** {8D31357D-328A-45CC-A5AB-B15C9C83EB71}

**ShortName:** SP.PickerSettings

This class contains configuration settings for the client people picker control hosted by the SharePoint sharing UI.

##### Properties

###### Scalar Properties

AllowEmailAddresses

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean value indicating whether the picker control will allow the resolution of arbitrary email addresses.

AllowOnlyEmailAddresses

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean value indicating whether the picker control will only allow the resolution of email addresses.

This property is used only when **AllowEmailAddresses** (section [3.2.5.301.1.1.1](#Section_b4b2238b8b1e4a6ab9c2732d480b6c79)) is set to True. Otherwise, it is ignored.

PrincipalAccountType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The account types that the picker control can query.

PrincipalSource

**Type:** Microsoft.SharePoint.Client.Utilities.PrincipalSource

**Accessibility:** Read Only

An enumeration object that specifies the principal source for the people picker control.

VisibleSuggestions

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

Number indicating the number of visible suggestions in the picker dropdown for possible entities.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.PolicyTipUserAction

**ShortName:** SP.PolicyTipUserAction

**Flag:** false

Specifies the user action to take in response to a [**policy tip**](#gt_957c6e78-2ea4-4bf1-9904-9b6ed084e54f).

##### Field Values

###### Override

**Value:** 0

Override the applied action.

###### ReportFalsePositive

**Value:** 1

Report false positive.

#### Microsoft.SharePoint.Client.PolicyTipUserActionResult

**ShortName:** SP.PolicyTipUserActionResult

**Flag:** false

The result from reporting or overriding a [**policy tip**](#gt_957c6e78-2ea4-4bf1-9904-9b6ed084e54f).

##### Field Values

###### None

**Value:** 0

No action was taken on the item. This happens if the item doesn't actually have a matching policy rule.

###### FalsePositiveReported

**Value:** 1

A false positive was reported for this item.

###### Overridden

**Value:** 2

The matching policy rule was overridden.

###### FalsePositiveReportedAndOverridden

**Value:** 3

A false positive was reported for this item, which resulted in the matching policy rule to be overridden.

#### Microsoft.SharePoint.Client.RemoteWeb

**TypeId:** {E31F488B-8615-4434-87A8-381B3AF1EE3B}

**ShortName:** SP.RemoteWeb

Specifies a remote web that might be on a different domain.

##### Properties

###### Scalar Properties

CanSendEmail

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether an e-mail server has been set for the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) this web is in.

ShareByEmailEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether users will be able to grant permissions to guests for resources within the web's parent [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

ShareByLinkEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether users will be able to share links to [**documents**](#gt_7b9a05f4-888b-4176-b00a-115046299e1b) that can be accessed without logging in.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

CSOM Constructor

Creates an instance of type **RemoteWeb** (section [3.2.5.304](#Section_2f9e9555a4344e6684850627fbbd31c6)).

**Parameters:**

*requestUrl:* A string that contains the URL for the web.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetFileByServerRelativeUrl

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

Returns the file object located at the specified URL.

**Parameters:**

*serverRelativeFileUrl:* A string that contains the URL for the file.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

GetFolderByServerRelativeUrl

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

Returns the folder object that is located at the specified URL.

**Parameters:**

*serverRelativeUrl:* A string that contains the URL for the folder.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

It MUST NOT be NULL.

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024894 | System.IO.FileNotFoundException | *serverRelativeUrl* doesn't correspond to a folder. |

GetGroupById

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

Returns the SharePoint group indicated by the specified Id.

**Parameters:**

*groupId:* The identifier of the SharePoint group to be retrieved.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2146233086 | System.ArgumentOutOfRangeException | The specified *groupId* value does not match a valid SharePoint Group object. |

GetListById

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

Returns the list indicated by the specified Id.

**Parameters:**

*listGuid:* The Id of the list to be retrieved.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

GetListByServerRelativeUrl

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

Returns the list that is associated with the specified server-relative URL.

**Parameters:**

*serverRelativeUrl:* A string that contains the site-relative URL for a list.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.Client.RenderListContextMenuDataParameters

**TypeId:** {775A72C4-6D8F-457F-AD76-D2779CA29921}

**ShortName:** SP.RenderListContextMenuDataParameters

Specifies the parameters that are used for a list menu item.

##### Properties

###### Scalar Properties

CascDelWarnMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The message that SHOULD be displayed if there is a cascade deletion warning.

CustomAction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a [**user custom action**](#gt_37e5b923-9192-4feb-86fd-668cd85bfcc9).

Field

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a special field that SHOULD be included.

ID

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The id of the list item whose menu information is being sought.

InplaceFullListSearch

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether there is a full list search. "true" if there is a full list search; "false" otherwise.

InplaceSearchQuery

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Search term for a full list search.

IsCSR

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether this view is a client side rendered view.

IsXslView

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether this view is an Xsl view.

ItemId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The list item id of the item whose menu information is being sought.

ListViewPageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The URL of the view that is being displayed.

OverrideScope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used to override a scope on the rendered view: SPView.Scope.

RootFolder

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The folder that the view is displaying.

View

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The view identifier Guid of the current view.

ViewCount

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

When multiple views are on a page, this identifies one of them.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.RenderListDataOptions

**ShortName:** SP.RenderListDataOptions

**Flag:** true

The type of data to return when rendering a list view as [**JSON**](#gt_7c4f81c3-2e19-4c95-ab8d-45721da01d26).

##### Field Values

###### None

**Value:** 0

Default render type.

###### ContextInfo

**Value:** 1

Returns the list data context information.

###### ListData

**Value:** 2

Returns the list data.

###### ListSchema

**Value:** 4

Returns the list schema.

###### MenuView

**Value:** 8

Returns the menu view of the list.

#### Microsoft.SharePoint.Client.RenderListDataOverrideParameters

**TypeId:** {AD0885E6-0F16-4694-9397-058C65376FB7}

**ShortName:** SP.RenderListDataOverrideParameters

The parameters that are used to override and extend the regular SPRenderListDataParameters.

##### Properties

###### Scalar Properties

CascDelWarnMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The message that SHOULD be displayed if there is a cascade deletion warning.

CustomAction

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a [**user custom action**](#gt_37e5b923-9192-4feb-86fd-668cd85bfcc9).

DrillDown

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies that some groups in a grouped view are expanded. Used with **GroupString** (section [3.2.5.307.1.1.84](#Section_e1f10946cfe246ae877f74685bfae8af)).

Field

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies a special [**field (2)**](#gt_f819dd42-7f44-4613-8231-d5ad47f2bbcc) that SHOULD be included.

FieldInternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used to identify a field when a list has an external data source. Also used when filtering on a custom field.

Filter

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether the requested view has a filter applied.

FilterData

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterData9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Data specified by a particular filter.

FilterField

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterField9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A filter field name for a specific filter that is applied to the view.

FilterFields

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterFields9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies multiple fields that are being filtered on for a multiplier filter.

FilterLookupId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterLookupId9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used when filtering on a lookup field. This is the item id in the foreign list that has a value that is being filtered on.

FilterOp

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterOp9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Filter operator. Used when filtering with other operators than Eq (Geq, Leq etc.).

FilterValue

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValue9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The filter value associated with a particular filter. For example, FilterField3 goes with FilterValue3 and so forth.

FilterValues

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

FilterValues9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used with **FilterFields** (section [3.2.5.307.1.1.29](#Section_41241643867d4e16ba86a58e5b2cb282)) for multiplier filter. For example, FilterFields3 would go with FilterValues3 and so forth.

GroupString

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Group identifier used for drill-down feature.

HasOverrideSelectCommand

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used to ensure that certain fields are present for proper functioning of the ListView control.

ID

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The item id of the item whose information is being sought.

InplaceFullListSearch

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether there is a full list search. "true" if there is a full list search; "false" otherwise.

InplaceSearchQuery

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Search term for a full list search.

IsCSR

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether this view is a client side rendered view.

IsGroupRender

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used to set the IsGroupRender property of the SPView.

IsXslView

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies whether this view is an xslt list view.

ListViewPageUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The URL of the view that is being displayed.

OverrideScope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used to override a scope on the rendered view: SPView.Scope.

OverrideSelectCommand

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Used to make sure that certain fields are present in the query regardless of whether they are explicitly included in the view.

PageFirstRow

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Paging information about the first row that is requested. Used for paging list views.

PageLastRow

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Paging information about the last row that is requested. Used for paging list views.

RootFolder

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The folder that the view is displaying.

SortDir

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortDir9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The sort direction of an ad hoc sort that is being applied to the view.

SortField

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField1

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField10

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField2

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField3

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField4

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField5

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField6

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField7

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField8

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortField9

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

A field that the view SHOULD be sorted on.

SortFields

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the first Field to sort by.

SortFieldValues

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the name of the first Field to sort by.

View

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The view identifier Guid of the current view.

ViewCount

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

When multiple list views are on a page, this identifies one of them.

ViewId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

Specifies the base view that will be used to render the list. Ad hoc parameters will be applied on top of this view. If both ViewXml and BaseViewId are given, then the ViewXml will be used and the ad hoc parameters will be ignored.

WebPartId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The id of the list view web part that is showing this view.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.RenderListFilterDataParameters

**TypeId:** {5932E072-C4E0-4809-B1C9-88077C4DF471}

**ShortName:** SP.RenderListFilterDataParameters

Specifies the parameters that are used to retrieve filter data.

##### Properties

###### Scalar Properties

FieldInternalName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The field internal name whose filter data is returned.

OverrideScope

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The overrideScope for which the field filter data is returned. The string values come from SPView.ConvertStringToViewScope.

ProcessQStringToCAML

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The processQString for which the field filter data is returned.

ViewId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The View ID (GUID) for the view from which to retrieve filter data.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.RequestUserContext

**TypeId:** {56E4C4BC-9C90-400C-8EFD-940E74794E3A}

**ShortName:** SP.RequestUserContext

The class that represents the user context for the present request. Typically found under /\_api/me

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

Current

**Type:** Microsoft.SharePoint.Client.RequestUserContext

**Accessibility:** Read Only

Gets the SPRequestUserContext for the current request.

User

**Type:** Microsoft.SharePoint.Client.User

**Accessibility:** Read Only

The SPUser object for the current request.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RuleOverrideOptions

**ShortName:** SP.RuleOverrideOptions

**Flag:** false

The allowable options that someone can take to override a policy match.

##### Field Values

###### None

**Value:** 0

No override is allowed.

###### Allow

**Value:** 1

Override is allowed without requiring justification.

###### AllowWithJustification

**Value:** 2

Override is allowed as long as justification is provided.

#### Microsoft.SharePoint.Client.SandboxedCodeActivationCapabilities

**ShortName:** SP.SandboxedCodeActivationCapabilities

**Flag:** false

The sandboxed code capabilities for the site collection.

Note that the SandboxedCodeActivationCapabilities enum in ms.online.sp.powershell Get/Set-SPOSite cmdlet defines the first enum value as 'Unknown'. This is because the SandboxedCodeActivationCapabilities in that code base needs an unknown value, indicating that the default use of Get-SPOSite does not return site properties. So you have to show the value in this case as unknown (that is the current model for that code base). If you add the -Detailed switch to Get-SPOSite, it will get the site properties.

##### Field Values

###### Check

**Value:** 1

The sandboxed code capability for the site collection is chosen based on the presence of existing solutions with sandboxed code. If the site collection contains one or more activated solutions with sandboxed code, the capability will be Enabled, otherwise Disabled. This is the default sandboxed code capability for site collections.

###### Disabled

**Value:** 2

The site collection will block activation and upgrade of solutions with sandboxed code.

###### Enabled

**Value:** 3

The site collection will allow activation and upgrade of solutions with sandboxed code.

#### Microsoft.SharePoint.Client.SharePointSharingSettings

**TypeId:** {07DBEBDF-94BC-4A22-843A-323551F64FAB}

**ShortName:** SP.SharePointSharingSettings

This class contains the SharePoint UI-specific sharing settings.

##### Properties

###### Scalar Properties

AddToGroupModeName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The group name when adding users to a single group (AddToGroup mode).

GroupNameLines

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

A collection of each group's name in the site.

GroupRoleDefinitionNamesLines

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

A collection of HTML definitions for each group's role in the site.

Format: <span title="ToolTip\_Text">Group's role name</span>

IsMobileView

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the sharing dialog SHOULD render as a mobile view.

PanelGivePermissionsVisible

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the "Give permissions" section (label and group/role drop-down) is visible.

PanelShowHideMoreOptionsVisible

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the Show/Hide more options link is visible.

PanelSimplifiedRoleSelectorVisible

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Boolean that indicates whether or not the simplified role (edit, view) drop-down is visible.

RequiredScriptFileLinks

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Provides file dependencies as a list of URLs, for the sharing feature.

RoleDefinitionNameLines

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

A collection of [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) definitions for each basic role in the site.

SelectedGroup

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

The reference to the currently selected group.

SharedWithEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the tabbed **Shared With** pane is enabled.

SharingCssLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

**[CSS](#gt_22155692-26b0-4146-9737-ef43f4b31305)** file link [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the sharing feature.

TabbedDialogEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the sharing dialog supports tabbing.

TabToShow

**Type:** [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

**Accessibility:** Read Only

An integer corresponding to the tab that is requested.

txtEmailSubjectText

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

A value that is used to fill in the sharing email subject line.

UserDisplayUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Base URL of the page used to display information about a particular user.

###### ObjectPath Properties

PickerProperties

**Type:** Microsoft.SharePoint.Client.PickerSettings

**Accessibility:** Read Only

An object containing the necessary information to initialize a client people picker control used to search for and resolve desired users and groups.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.Sharing.WebSharingManager

**TypeId:** {A187F049-F067-42CD-977B-79E85EA2A9FA}

**ShortName:** SP.Sharing.WebSharingManager

Specifies a placeholder for all web sharing methods.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

CanMemberShare

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

Indicates whether the input site can do member sharing.

**Parameters:**

*web:* The [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to check member sharing.

Type: Microsoft.SharePoint.Client.Web

UpdateWebSharingInformation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Sharing.UserSharingResult

This method allows a user to update a site's sharing information.

**Parameters:**

*web:* The [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) to update the sharing information.

Type: Microsoft.SharePoint.Client.Web

*userRoleAssignments:* A list of recipients and their new assigned roles on the [**securable object**](#gt_63d70240-3bed-4377-9c62-2879a0fd9eff).

Type: CSOM array of Microsoft.SharePoint.Client.Sharing.UserRoleAssignment

*sendServerManagedNotification:* A Boolean to tell the server to generate an email notification if an email server is configured on the server.

Type: [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

*customMessage:* A custom message to be included in the email notification.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*additivePermission:* A Boolean indicating whether the permission setting uses the additive or strict mode.

Type: CSOM Boolean

*allowExternalSharing:* A Boolean to indicate whether to support external sharing.

Type: CSOM Boolean

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SharingLinkInfo

**TypeId:** {43647532-53C0-489A-A800-B51F5A3804A2}

**ShortName:** SP.SharingLinkInfo

Specifies the information about the sharing link.

##### Properties

###### Scalar Properties

IsActive

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether the sharing link is active.

LinkKind

**Type:** Microsoft.SharePoint.Client.SharingLinkKind

**Accessibility:** Read Only

Specifies the kind of sharing link being shared.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the sharing link being shared.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.SharingLinkKind

**ShortName:** SP.SharingLinkKind

**Flag:** false

Specifies the type of sharing link being shared.

##### Field Values

###### Uninitialized

**Value:** 0

Indicates the share operation completed without errors.

###### Direct

**Value:** 1

Indicates a direct link to the object being shared.

###### OrganizationView

**Value:** 2

Indicates an organization-shareable link to the object being shared with view permissions.

###### OrganizationEdit

**Value:** 3

Indicates an organization-shareable link to the object being shared with edit permissions.

###### AnonymousView

**Value:** 4

Indicates the view-only anonymous link.

###### AnonymousEdit

**Value:** 5

Indicates the Read/Write anonymous link.

#### Microsoft.SharePoint.Client.SharingOperationStatusCode

**ShortName:** SP.SharingOperationStatusCode

**Flag:** false

Contains values representing the overall result of a sharing operation.

##### Field Values

###### CompletedSuccessfully

**Value:** 0

Indicates the share operation completed without errors.

###### AccessRequestsQueued

**Value:** 1

Indicates the share operation completed and generated requests for access.

###### NoResolvedUsers

**Value:** -1

Indicates the share operation failed as there were no resolved users.

###### AccessDenied

**Value:** -2

Indicates the share operation failed due to insufficient permissions.

###### CrossSiteRequestNotSupported

**Value:** -3

Indicates the share operation failed when attempting a cross-site share, which is not supported.

###### UnknowError

**Value:** -4

Indicates the sharing operation failed due to an unknown error.

#### Microsoft.SharePoint.Client.SharingPermissionInformation

**TypeId:** {1A97A9B7-5F9F-4DA3-9402-48324BCB9D9F}

**ShortName:** SP.SharingPermissionInformation

Contains information about a sharing permission entity such as group or role.

##### Properties

###### Scalar Properties

IsDefaultPermission

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Identifies whether or not the permission entity is a default SPGroup or role (meaning it is recommended for granting permissions).

A value of true specifies the current permission is a default SPGroup for granting permissions to a site (site owner, member, or visitor SPGroup) or a default role for granting permission to a file or other non-site object (edit or view). A value of false specifies otherwise.

For SPSites & SPWebs, there can be three default permission entities: owners, members, or visitors SPGroups. For granting permissions to a file or other non-site object, there can be two default permission entities: a role for view permissions (StandardViewerRoleDefinitionID) and a role for edit permissions (StandardEditorRoleDefinitionID).

PermissionDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the permission's associated group or role name including its descriptions (optional).

PermissionId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the ID of this permission in the following formats: group:x, role: xxxxxx.

PermissionKind

**Type:** Microsoft.SharePoint.Client.SharingPermissionKind

**Accessibility:** Read Only

Gets the kind of sharing permission such as group, role, etc.

PermissionName

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the permission.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SharingPermissionInformationCollection

**TypeId:** {7EE2A862-17C8-46B8-8F66-0373EE06AFBF}

**ShortName:** SP.SharingPermissionInformationCollection

Contains a collection of **SharingPermissionInformation** (section [3.2.5.317](#Section_86f4c1c5f21246bc9d831a533063855e)) objects.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SharingPermissionKind

**ShortName:** SP.SharingPermissionKind

**Flag:** false

Describes the kind of **SharingPermissionInformation** (section [3.2.5.317](#Section_86f4c1c5f21246bc9d831a533063855e)) a particular permission option is when it is used for granting permission.

##### Field Values

###### Group

**Value:** 0

This kind of permission option is a SharePoint group, which users are added to in order to grant permissions.

###### Role

**Value:** 1

This kind of permission option grants permissions by assigning a particular role directly to the user.

#### Microsoft.SharePoint.Client.SharingResult

**TypeId:** {AEB0DDA7-3371-4E99-8063-9AFF83BB44E6}

**ShortName:** SP.SharingResult

Contains properties generated as a result of sharing.

##### Properties

###### Scalar Properties

ErrorMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets an error message about the failure if sharing was unsuccessful.

IconUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets a URL to an icon that represents the securable, if one exists.

InvitedUsers

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.SPInvitationCreationResult

**Accessibility:** Read Only

Gets a list of **SPInvitationCreationResult** (section [3.2.5.325](#Section_1573a004060248ada4a2e67fb3febda0)) objects representing the external users being invited to have access.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the name of the securable being shared.

PermissionsPageRelativeUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the relative URL of the page that shows permissions.

StatusCode

**Type:** Microsoft.SharePoint.Client.SharingOperationStatusCode

**Accessibility:** Read Only

Gets the enumeration value which summarizes the result of the sharing operation.

UniquelyPermissionedUsers

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Sharing.UserSharingResult

**Accessibility:** Read Only

Gets the list of **UserSharingResult** (section [3.2.5.190](#Section_efb7052d05394b8d95624c6f8541601d)) objects obtained when attempting to share a securable with unique permissions.

Url

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Gets the URL of the securable being shared.

UsersAddedToGroup

**Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.Sharing.UserSharingResult

**Accessibility:** Read Only

Gets the list of users being added to the SharePoint permissions group.

###### ObjectPath Properties

GroupsSharedWith

**Type:** Microsoft.SharePoint.Client.GroupCollection

**Accessibility:** Read Only

Gets the groups which were granted permissions.

GroupUsersAddedTo

**Type:** Microsoft.SharePoint.Client.Group

**Accessibility:** Read Only

Gets the SharePoint group that users, if any, were added to.

UsersWithAccessRequests

**Type:** Microsoft.SharePoint.Client.SharingUserCollection

**Accessibility:** Read Only

Gets the collection of users which have new pending access requests as a result of sharing.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SharingUserCollection

**TypeId:** {EADF1A24-3786-44DD-8C4F-1B16E787F4AD}

**ShortName:** SP.SharingUserCollection

Specifies a collection of sharing users.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SPDataLeakagePreventionStatusInfo

**TypeId:** {3D7F9E23-8100-41F1-96A8-D272093463F8}

**ShortName:** SP.SPDataLeakagePreventionStatusInfo

Contains all the Data Leakage Prevention status information to render the appropriate sharing warnings to the user on page load.

##### Properties

###### Scalar Properties

ContainsConfidentialInfo

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Returns the **ContainsConfidentialInfo** property (section [3.2.5.143.1.1.38](#Section_ac909d349f614b3387c1c2e73c30b9c4)) of the **SP.Web**.

ContainsConfidentialInfoLearnMoreUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Returns the Learn More link [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) associated with the **ContainsConfidentialInfo** property (section [3.2.5.143.1.1.38](#Section_ac909d349f614b3387c1c2e73c30b9c4)).

ExternalSharingTipsEnabled

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Returns the **ExternalSharingTipsEnabled** property (section [3.2.5.119.1.1.28](#Section_c8760f0572b844a99360be18523b7c01)) of the **SP.Site**.

ExternalSharingTipsLearnMoreUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Returns the Learn More link URL associated with the **ExternalSharingTipsEnabled** property (section [3.2.5.119.1.1.28](#Section_c8760f0572b844a99360be18523b7c01)).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SpecialFolderType

**ShortName:** SP.SpecialFolderType

**Flag:** false

Scenarios that are supported by the "Save to OneDrive" API.

##### Field Values

###### Attachment

**Value:** 0

The email attachment can be saved to OneDrive.

###### Photos

**Value:** 1

Photos can be saved to OneDrive.

###### CameraRoll

**Value:** 2

The camera roll can be saved to OneDrive.

###### Music

**Value:** 3

Music can be saved to OneDrive.

###### Apps

**Value:** 4

Apps can be saved to OneDrive.

###### AppRoot

**Value:** 5

The AppRoot can be saved to OneDrive.

#### Microsoft.SharePoint.Client.SPEffectiveInformationRightsManagementSettingsSource

**ShortName:** SP.SPEffectiveInformationRightsManagementSettingsSource

**Flag:** false

Specifies the different effective [**IRM**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings source for the file.

##### Field Values

###### None

**Value:** 0

No [**IRM**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings.

###### File

**Value:** 1

The [**IRM**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings are applied from the file.

###### List

**Value:** 2

The [**IRM**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings are applied from the list containing the file.

###### Rule

**Value:** 3

The [**IRM**](#gt_ff35237a-a497-42aa-b0d5-7a0116328759) settings are applied from a Data Loss Prevention rule.

#### Microsoft.SharePoint.Client.SPInvitationCreationResult

**TypeId:** {56593357-67A4-41F7-B6D8-CCE2D1013AFE}

**ShortName:** SP.SPInvitationCreationResult

Specifies a result of adding an invitation.

##### Properties

###### Scalar Properties

Email

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies an email address of the invitation.

InvitationLink

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies an invitation link which was generated during invitation creation.

Succeeded

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Specifies whether adding the invitation is successful.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.SPMigrationJobStatus

**TypeId:** {6F5420D8-0B1C-4212-9770-AD7A2E67B3C7}

**ShortName:** SP.SPMigrationJobStatus

Specifies the status of the migration job.

##### Properties

###### Scalar Properties

JobId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read/Write

Gets or sets the ID of the migration job.

JobState

**Type:** Microsoft.SharePoint.Client.MigrationJobState

**Accessibility:** Read/Write

Gets or sets the status of the migration job.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.SPMigrationJobStatusCollection

**TypeId:** {B584E7EA-7FC7-4DD7-AAA6-45A098E356A6}

**ShortName:** SP.SPMigrationJobStatusCollection

Specifies a status collection of the migration job.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.StorageMetrics

**TypeId:** {33C58B88-4AF3-4EF1-A310-6BA3EF255058}

**ShortName:** SP.StorageMetrics

Represents storage-related metrics.

##### Properties

###### Scalar Properties

LastModified

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Last modified date for all the items under the corresponding folder.

TotalFileCount

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Aggregate number of files within the corresponding folder and its sub-folders. Excludes versions, list item attachments, and non-customized documents.

TotalFileStreamSize

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Aggregate stream size in bytes for all files under the corresponding folder and its sub-folders. Excludes version, metadata, list item attachment, and non-customized document sizes.

TotalSize

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Aggregate of total sizes in bytes for all items under the corresponding folder and its sub-folders. Total size for a file/folder includes stream, version, and metadata sizes.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.TenantAppInformation

**TypeId:** {52E6BC7D-825F-45B5-9F39-7A11723319DF}

**ShortName:** SP.TenantAppInformation

Specifies the information for the tenant-scoped app.

##### Properties

###### Scalar Properties

AppPrincipalId

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**OAuth**](#gt_cb5ce626-9f44-4967-b6f5-cc58163db5f9) Id for the tenant-scoped app.

AppWebFullUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the web full [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the tenant-scoped app.

CreationTime

**Type:** [**CSOM DateTime**](#gt_9fb669ce-6335-4388-be80-9dc0fe66ad19)

**Accessibility:** Read Only

Specifies the creation time for the tenant-scoped app.

IconAbsoluteUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the absolute icon [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the tenant-scoped app.

IconFallbackAbsoluteUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the fallback icon [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the tenant-scoped app.

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier for the tenant-scoped app.

LaunchUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the launch [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the tenant-scoped app.

PackageFingerprint

**Type:** [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

**Accessibility:** Read Only

Specifies the package fingerprint for the tenant-scoped app.

ProductId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the product ID for the tenant-scoped app.

RemoteAppUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the remote host URL for the tenant-scoped app.

Status

**Type:** Microsoft.SharePoint.Client.AppInstanceStatus

**Accessibility:** Read Only

Specifies the status for the tenant-scoped app.

Title

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the title for the tenant-scoped app.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.Client.TenantAppInstance

**TypeId:** {729F09B7-A266-4D40-8689-0A1490156244}

**ShortName:** SP.TenantAppInstance

Represents an instance of a tenant-scoped app for a given host web.

##### Properties

###### Scalar Properties

Id

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the unique identifier of this instance.

SiteId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa) that contains the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) where this instance is installed.

WebId

**Type:** [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

**Accessibility:** Read Only

Specifies the identifier of the [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) where this instance is installed.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.TenantAppUtility

**TypeId:** {A7E15A67-957E-459B-8903-E1E42FA52AB1}

**ShortName:** SP.TenantAppUtility

Specifies the tenant app related utility.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetAppPermissionDescriptions

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Gets the app permissions for the tenant-scoped app.

**Parameters:**

*web:* The web in which the tenant-scoped app is deployed.

Type: Microsoft.SharePoint.Client.Web

*tenantAppInstance:* The instance for the tenant app.

Type: Microsoft.SharePoint.Client.TenantAppInstance

GetTenantAppInformationCollection

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** [**CSOM array**](#gt_7189e407-9d78-4368-997d-d58a11d43d40) of Microsoft.SharePoint.Client.TenantAppInformation

Gets information of tenant-scoped apps of a site.

**Parameters:**

*web:* The web in which the tenant-scoped app is deployed.

Type: Microsoft.SharePoint.Client.Web

*lcid:* The locale that is supported by the tenant apps.

Type: [**CSOM Int32**](#gt_642ec6b3-3e56-423d-aadb-a523fa0038d0)

###### ObjectPath Methods

GetAppDetails

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Packaging.AppDetails

Gets the app details for the tenant-scoped app.

**Parameters:**

*web:* The web in which the tenant-scoped app is deployed.

Type: Microsoft.SharePoint.Client.Web

*tenantAppInstance:* The instance for the tenant app.

Type: Microsoft.SharePoint.Client.TenantAppInstance

GetAppIcon

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Packaging.AppIconInfo

Gets the SPAppIcon for the tenant scoped app.

**Parameters:**

*web:* The web in which the tenant-scoped app is deployed.

Type: Microsoft.SharePoint.Client.Web

*appInstanceId:* The app instance identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

*packageFingerprint:* The app package fingerprint.

Type: [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

GetTenantAppInstance

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

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

Gets the instance for the tenant-scoped app.

**Parameters:**

*web:* The web in which the tenant-scoped app is deployed.

Type: Microsoft.SharePoint.Client.Web

*appInstance:* The app instance identifier.

Type: [**CSOM GUID**](#gt_ad99e890-6237-4e39-b6c5-d6ba9d6426fa)

#### Microsoft.SharePoint.Client.TenantSettings

**TypeId:** {E9A11C41-0667-4C14-A4A5-E0D6CF67F6FA}

**ShortName:** SP.TenantSettings

Specifies the tenant properties.

##### Properties

###### Scalar Properties

CorporateCatalogUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the corporate catalog [**site collection**](#gt_aed5b662-5f22-436d-a37f-c70d9c278bfa).

###### ObjectPath Properties

Current

**Type:** Microsoft.SharePoint.Client.TenantSettings

**Accessibility:** Read Only

Specifies the current instance for the **SP.TenantSettings**.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.UserResource

**TypeId:** {2B2AFFEB-3CCD-4996-9864-211C960E647C}

**ShortName:** SP.UserResource

An object representing user-defined localizable resources.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

GetValueForUICulture

**Return Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

Returns the value of the resource for the requested culture. This falls back to the value specified for the web's UI culture.

**Parameters:**

*cultureName:* The culture for which value is requested.

Type: CSOM String

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

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.Globalization.CultureNotFoundException | *cultureName* doesn't correspond to a valid culture. |

SetValueForUICulture

**Return Type:** None

Sets the value of the resource for the requested culture. This method throws an exception if the culture is not enabled for the web.

**Parameters:**

*cultureName:* The culture for which the value is specified.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

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

*value:* The value of the resource in the requested culture.

Type: CSOM String

**Exceptions:**

| Error Code | Error Type Name | Condition |
| --- | --- | --- |
| -2147024809 | System.Globalization.CultureNotFoundException | *cultureName* doesn't correspond to a valid culture. |

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.UserResourceScope

**ShortName:** SP.UserResourceScope

**Flag:** false

The possible scopes for the SPUserResource object.

##### Field Values

###### Web

**Value:** 0

Resources scoped to the SPWeb.

###### List

**Value:** 1

Resources scoped to the SPList.

#### Microsoft.SharePoint.Client.UserResourceType

**ShortName:** SP.UserResourceType

**Flag:** false

The possible types for SPUserResource strings. This can be either single-line, or multiline.

##### Field Values

###### SingleLine

**Value:** 0

Strings that have a width of less than 256 bytes.

###### MultiLine

**Value:** 1

Strings with a width of more than 256 bytes.

#### Microsoft.SharePoint.Client.UserSharingCapabilities

**ShortName:** SP.UserSharingCapabilities

**Flag:** true

Describes the types of sharing actions that a user can perform on a document.

##### Field Values

###### None

**Value:** 0

The user cannot share.

###### CanShareInternally

**Value:** 1

The user can only share within the tenancy.

###### CanShareExternally

**Value:** 2

The user can share outside the tenancy by inviting external users.

###### CanUseReadonlyLink

**Value:** 4

The user can retrieve a read-only anonymous link, if one has already been created. If one has not been created, the user cannot create one.

###### CanManageReadonlyLink

**Value:** 8

The user can retrieve a read-only anonymous link, if one has already been created. If one has not been created, the user can create one.

###### CanUseReadWriteLink

**Value:** 16

The user can retrieve a read/write anonymous link, if one has already been created. If one has not been created, the user cannot create one.

###### CanManageReadWriteLink

**Value:** 32

The user can retrieve a read/write anonymous link, if one has already been created. If one has not been created, the user can create one.

###### CanUseOrganizationReadonlyLink

**Value:** 64

The user can retrieve an organization link, if one has already been created. If one has not been created, the user cannot create one.

###### CanManageOrganizationReadonlyLink

**Value:** 128

The user can retrieve an organization link, if one has already been created. If one has not been created, the user can create one.

###### CanUseOrganizationReadWriteLink

**Value:** 256

The user can retrieve a read/write organization link, if one has already been created. If one has not been created, the user cannot create one.

###### CanManageOrganizationReadWriteLink

**Value:** 512

The user can retrieve a read/write organization link, if one has already been created. If one has not been created, the user can create one.

#### Microsoft.SharePoint.Client.Utilities.WopiHostUtility

**TypeId:** {D695593A-D289-4151-9C0F-5AA5C350E98A}

**ShortName:** SP.Utilities.WopiHostUtility

Do not use. For internal use only.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetWopiTargetPropertiesByUrl

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.Client.Utilities.WopiProperties

Do not use. For internal use only.

**Parameters:**

*fileUrl:* Do not use. For internal use only.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

*requestedAction:* Do not use. For internal use only.

Type: Microsoft.SharePoint.Client.Utilities.SPWOPIFrameAction

#### Microsoft.SharePoint.Client.Utilities.WopiProperties

**TypeId:** {690C6ECD-195F-4ED8-B282-04DFDA883845}

**ShortName:** SP.Utilities.WopiProperties

Do not use. For internal use only.

##### Properties

###### Scalar Properties

AccessToken

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Do not use. For internal use only.

AccessTokenTtl

**Type:** [**CSOM Int64**](#gt_23935426-acc0-4a38-a8cf-2a4091f9e161)

**Accessibility:** Read Only

Do not use. For internal use only.

AppIconUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Do not use. For internal use only.

ErrorMessageToDisplay

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Do not use. For internal use only.

RedirectUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Do not use. For internal use only.

WebApplicationUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Do not use. For internal use only.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Packaging.AppDetails

**TypeId:** {393DBB05-A6C5-4159-83A7-DD70055AD640}

**ShortName:** Microsoft.SharePoint.Packaging.AppDetails

Specifies the detail properties for an [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

##### Properties

###### Scalar Properties

EulaUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) to get the [**End User License Agreement (EULA)**](#gt_f7cff23a-c905-4bce-a2b9-ab44b9ba5a73) information for the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

PrivacyUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the privacy statement for the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

Publisher

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the publisher name for the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

ShortDescription

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies a short description for the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

SupportUrl

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) of the support page for the [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Packaging.AppIconInfo

**TypeId:** {A6A203A3-6F7D-4430-B8EB-830D1FDE4AE8}

**ShortName:** Microsoft.SharePoint.Packaging.AppIconInfo

Specifies the icon information for an [**app (2)**](#gt_7e64dab2-4f6b-4c5e-98d2-f9eb83b5cd79).

##### Properties

###### Scalar Properties

Content

**Type:** [**CSOM binary**](#gt_321b04c2-4a6c-4335-967e-38b64f8da3fc)

**Accessibility:** Read Only

Specifies the byte array of the icon.

MimeType

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Specifies the [**MIME type**](#gt_8a06dbed-3a9b-42c0-a719-d769f2eb605b) of the icon content.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.WebControls.ModuleLink

**TypeId:** {6585CBBD-FB91-45E7-B687-08D8CD8FF94C}

**ShortName:** Microsoft.SharePoint.WebControls.ModuleLink

Takes a set of Asynchronous module definition (AMD) modules that’s described in a resource manifest file, and generates the AMD loader configuration needed to link modules to the page.

##### Properties

###### Scalar Properties

None.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

GetResourceManifestInformation

This method is a [**static CSOM method**](#gt_f32ebfd1-1c8c-4953-8313-04cc1b98c8d4).

**Return Type:** Microsoft.SharePoint.WebControls.ResourceManifestInformation

Gets the information for a resource manifest file.

**Parameters:**

*web:* The [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) for retrieving the resource manifest file.

Type: Microsoft.SharePoint.Client.Web

*manifestName:* Specifies the resource manifest name.

Type: [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

#### Microsoft.SharePoint.WebControls.ResourceManifestInformation

**TypeId:** {4FAA3FED-379C-4F9F-B0C7-FE0451DDAB7E}

**ShortName:** Microsoft.SharePoint.WebControls.ResourceManifestInformation

Represents the information for a resource manifest file.

##### Properties

###### Scalar Properties

RequireJsScriptBlock

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Literal script for client to configure the Asynchronous module definition (AMD) loader.

ScenarioMapping

**Type:** [**CSOM dictionary**](#gt_35a9fc93-998f-4200-9b8b-ba60ab83dad0)

**Accessibility:** Read Only

Maps scenario name to comma-delimited list of Asynchronous module definition (AMD) module IDs.

###### ObjectPath Properties

None.

##### Methods

###### Scalar Methods

None.

###### ObjectPath Methods

None.

#### Microsoft.SharePoint.Client.RecycleBinOrderBy

**ShortName:** SP.RecycleBinOrderBy

**Flag:** false

Specifies the column for which to order a Recycle Bin query.

##### Field Values

###### Min

**Value:** 0

Order by minimum size.

###### DefaultOrderBy

**Value:** 0

Use default order.

###### Title

**Value:** 0

Name column.

###### DirName

**Value:** 1

Original Location column.

###### Author

**Value:** 2

Created By column.

###### DeletedDate

**Value:** 3

Order by the Deleted column, which specifies the date that the [**Recycle Bin item**](#gt_72b5692e-a51f-435a-a8a2-5006a4d6c54b) was deleted.

###### Size

**Value:** 4

Size column.

###### DeletedBy

**Value:** 5

Deleted By column.

###### None

**Value:** 6

Ordering is not enforced. Can be used only for SPRecycleBinItemCollectionPosition.FirstPage.

###### Max

**Value:** 6

Order by maximum size.

#### Microsoft.SharePoint.Client.Sharing.RemoveItemsFromSharedWithMeViewErrorCode

**ShortName:** SP.Sharing.RemoveItemsFromSharedWithMeViewErrorCode

**Flag:** false

An error code representing what went wrong during the removal of an item from the 'Shared With Me' view.

##### Field Values

###### Success

**Value:** 0

Operation was successful without any errors.

###### InvalidListItem

**Value:** -1

Item URL was empty or null or couldn't find the list item specified by the URL.

###### InvalidItemSharing

**Value:** -2

List item does not contain valid sharing information or item is not shared with current user.

###### UnableToRemoveItem

**Value:** -3

Operation failed due to an unknown error.

#### Microsoft.SharePoint.Client.Sharing.SharedWithMeViewItemRemovalResult

**TypeId:** {418572C1-2347-4190-90BD-30A19A251C11}

**ShortName:** SP.Sharing.SharedWithMeViewItemRemovalResult

An object that contains the result of calling the API to remove an item from a user's 'Shared With Me' view.

##### Properties

###### Scalar Properties

ErrorCode

**Type:** Microsoft.SharePoint.Client.Sharing.RemoveItemsFromSharedWithMeViewErrorCode

**Accessibility:** Read Only

Error code if the operation was not successful.

ErrorMessage

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read Only

Description of the error that happened if the operation was not successful.

Success

**Type:** [**CSOM Boolean**](#gt_6c8e3450-bc4f-4a6f-98fb-253ad95fde0c)

**Accessibility:** Read Only

Indicates whether the overall operation succeeded.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentQueryResult

**TypeId:** {AAB91EFE-8E87-4B0F-8DCB-51F556F9AC01}

**ShortName:** Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentQueryResult

This object contains information about the requested component and the status of the query that was used to retrieve the component.

##### Properties

###### Scalar Properties

ComponentType

**Type:** Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentType

**Accessibility:** Read/Write

Specifies the type of component. See section [3.2.5.348](#Section_31d55c43bf794dcf86cb3f73d9c93402) for more information.

Id

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The unique identifier of a component. It MUST be a valid [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) string.

Manifest

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The manifest of a component.

ManifestType

**Type:** Microsoft.SharePoint.ClientSideComponent.SPClientSideManifestType

**Accessibility:** Read/Write

Specifies the type of the manifest. The manifest type MUST be Unknown or Component.

Name

**Type:** [**CSOM String**](#gt_efb0d460-2579-4e28-a1b2-dd8d6b457bfe)

**Accessibility:** Read/Write

The name of the component.

Status

**Type:** Microsoft.SharePoint.ClientSideComponent.SPClientSideQueryStatus

**Accessibility:** Read/Write

Specifies the result of the query used to retrieve components.

###### ObjectPath Properties

None.

#### Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentType

**ShortName:** Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentType

**Flag:** false

Describes the requested component’s type.

##### Field Values

###### Unknown

**Value:** 0

Specifies an unknown component type.

###### WebPart

**Value:** 1

Specifies a client-side web part.

###### Application

**Value:** 2

Specifies the application responsible for hosting webparts.

###### Library

**Value:** 3

Specifies a library of reusable JavaScript code and resources.

#### Microsoft.SharePoint.ClientSideComponent.SPClientSideManifestType

**ShortName:** Microsoft.SharePoint.ClientSideComponent.SPClientSideManifestType

**Flag:** false

Specifies the manifest type.

##### Field Values

###### Unknown

**Value:** 0

Specifies an unknown manifest type.

###### Component

**Value:** 1

Specifies a component type manifest.

#### Microsoft.SharePoint.ClientSideComponent.SPClientSideQueryStatus

**ShortName:** Microsoft.SharePoint.ClientSideComponent.SPClientSideQueryStatus

**Flag:** false

Specifies the status of a query to retrieve SPClientSideComponentQueryResult (section [3.2.5.346](#Section_8a61c71efcef4ca6829882485dc30c52)).

##### Field Values

###### Success

**Value:** 0

The component was found with no errors.

###### ErrorNotFound

**Value:** 1

The component was not found.

###### ErrorDisabled

**Value:** 2

The component was found but disabled.

###### ErrorInvalidManifest

**Value:** 3

The component was found but had an invalid manifest.

###### ErrorCustomScriptDisabled

**Value:** 4

The component was not retrieved because custom scripts are disabled on the [**Site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) .

###### ErrorFeatureNotEnabled

**Value:** 5

The component was not retrieved because an associated [**feature**](#gt_b5d295bb-f86e-4edb-9a98-e4d2bdcf14b4) is not enabled on the [**Site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba).

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

## Get the Title of a Web

In this example, the title of a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) is retrieved by using the **Web** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) obtained from a **Context**. The operation is summarized in the following steps.

1. Get the context from the protocol server that corresponds to the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) 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:**

1. <Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0" LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library" xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
2. <Actions>
3. <ObjectPath Id="2" ObjectPathId="1" />
4. <ObjectPath Id="4" ObjectPathId="3" />
5. <Query Id="5" ObjectPathId="3">
6. <Query SelectAllProperties="true">
7. <Properties />
8. </Query>
9. </Query>
10. </Actions>
11. <ObjectPaths>
12. <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
13. <Property Id="3" ParentId="1" Name="Web" />
14. </ObjectPaths></Request>

**Response:**

1. [
2. {
3. "SchemaVersion": "14.0.0.0",
4. "LibraryVersion": "14.0.4104.1000",
5. "ErrorInfo": null
6. }, 2, {
7. "IsNull": false
8. }, 4, {
9. "IsNull": false
10. }, 5, {
11. "\_ObjectType\_": "SP.Web",
12. "\_ObjectIdentity\_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268",
13. "Description": "",
14. "Created": "\/Date(2009,4,18,20,50,9,0)\/",
15. "LastItemModifiedDate": "\/Date(2009,4,18,21,28,50,0)\/",
16. "RecycleBinEnabled": true,
17. "Title": "4104",
18. "ServerRelativeUrl": "\u002f",
19. "Id": "\/Guid(eb66d01f-d638-41f8-81d7-1a58dd459268)\/",
20. "SyndicationEnabled": true,
21. "AllowRssFeeds": true,
22. "QuickLaunchEnabled": true,
23. "TreeViewEnabled": false,
24. "Language": 1033,
25. "UIVersion": 4,
26. "UIVersionConfigurationEnabled": false,
27. "AllowDesignerForCurrentUser": true,
28. "AllowRevertFromTemplateForCurrentUser": false,
29. "AllowMasterPageEditingForCurrentUser": false,
30. "ShowUrlStructureForCurrentUser": false
31. }
32. ]

## Update the Description of a List

**In this example, the description of an existing List** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) is updated by using the following steps.

1. Get the context from the protocol server that corresponds to the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) 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:**

1. <Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0" LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library" xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
2. <Actions>
3. <ObjectPath Id="2" ObjectPathId="1" />
4. <ObjectPath Id="4" ObjectPathId="3" />
5. <ObjectPath Id="6" ObjectPathId="5" />
6. <ObjectPath Id="8" ObjectPathId="7" />
7. <ObjectIdentityQuery Id="9" ObjectPathId="7" />
8. <SetProperty Id="10" ObjectPathId="7" Name="Description">
9. <Parameter Type="String">The new description</Parameter>
10. </SetProperty>
11. <Method Name="Update" Id="11" ObjectPathId="7" />
12. </Actions>
13. <ObjectPaths>
14. <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
15. <Property Id="3" ParentId="1" Name="Web" />
16. <Property Id="5" ParentId="3" Name="Lists" />
17. <Method Id="7" ParentId="5" Name="GetByTitle">
18. <Parameters>
19. <Parameter Type="String">My List</Parameter>
20. </Parameters>
21. </Method>
22. </ObjectPaths></Request>

**Response:**

1. [
2. {
3. "SchemaVersion": "14.0.0.0", "LibraryVersion": "14.0.4104.1000", "ErrorInfo": null
4. }, 2, {
5. "IsNull": false
6. }, 4, {
7. "IsNull": false
8. }, 6, {
9. "IsNull": false
10. }, 8, {
11. "IsNull": false
12. }, 9, {
13. "\_ObjectIdentity\_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:c3a072d4-45d2-4db0-a4ac-78fe0a12b5fc"
14. }
15. ]

## Add a List to a ListCollection

In this example, a new **List** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) 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 that corresponds to the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) 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:**

1. <Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0" LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library" xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
2. <Actions>
3. <ObjectPath Id="2" ObjectPathId="1" />
4. <ObjectPath Id="4" ObjectPathId="3" />
5. <ObjectPath Id="6" ObjectPathId="5" />
6. <ObjectPath Id="8" ObjectPathId="7" />
7. <ObjectIdentityQuery Id="9" ObjectPathId="7" />
8. </Actions>
9. <ObjectPaths>
10. <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
11. <Property Id="3" ParentId="1" Name="Web" />
12. <Property Id="5" ParentId="3" Name="Lists" />
13. <Method Id="7" ParentId="5" Name="Add">
14. <Parameters>
15. <Parameter TypeId="{e247b7fc-095e-4ea4-a4c9-c5d373723d8c}">
16. <Property Name="Title" Type="String">My New List</Property>
17. <Property Name="Description" Type="Null" />
18. <Property Name="Url" Type="Null" />
19. <Property Name="TemplateFeatureId" Type="Guid">{00000000-0000-0000-0000-000000000000}</Property>
20. <Property Name="TemplateType" Type="Int32">101</Property>
21. <Property Name="DocumentTemplateType" Type="Int32">0</Property>
22. <Property Name="CustomSchemaXml" Type="Null" />
23. <Property Name="QuickLaunchOption" Type="Enum">0</Property>
24. <Property Name="DataSourceProperties" Type="Dictionary" />
25. </Parameter>
26. </Parameters>
27. </Method>
28. </ObjectPaths>
29. </Request>

**Response:**

1. [
2. {
3. "SchemaVersion":"14.0.0.0","LibraryVersion":"14.0.4104.1000","ErrorInfo":null
4. },2,{
5. "IsNull":false
6. },4,{
7. "IsNull":false
8. },6,{
9. "IsNull":false
10. },8,{
11. "IsNull":false
12. },9,{
13. "\_ObjectIdentity\_":"740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:6a969bdb-9373-436b-b46e-20ba0bd00274"
14. }
15. ]

## Add a Lookup Field

In this example, a new [**lookup field**](#gt_516e038e-03b3-4fd0-9045-39d13f03a8f7) is added to an existing [**list**](#gt_04ce231e-214c-44fd-b7ba-7cc19eee79bf) that points to another existing list. The following steps provide an overview of this operation.

1. Get the context from the protocol server that corresponds to the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) where the service is called.
2. Get the associated **Web** [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) from the context.
3. Get the necessary list information from **Web** (Request 1).
4. Add a lookup field to "List 1" that points to "List 2" (Request 2).

**Request 1:**

1. <Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0" LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library" xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
2. <Actions>
3. <ObjectPath Id="2" ObjectPathId="1" />
4. <ObjectPath Id="4" ObjectPathId="3" />
5. <ObjectPath Id="6" ObjectPathId="5" />
6. <ObjectPath Id="8" ObjectPathId="7" />
7. <ObjectIdentityQuery Id="9" ObjectPathId="7" />
8. <ObjectPath Id="11" ObjectPathId="10" />
9. <ObjectIdentityQuery Id="12" ObjectPathId="10" />
10. <Query Id="13" ObjectPathId="10">
11. <Query SelectAllProperties="false">
12. <Properties>
13. <Property Name="Id" ScalarProperty="true" />
14. </Properties>
15. </Query>
16. </Query>
17. </Actions>
18. <ObjectPaths>
19. <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
20. <Property Id="3" ParentId="1" Name="Web" />
21. <Property Id="5" ParentId="3" Name="Lists" />
22. <Method Id="7" ParentId="5" Name="GetByTitle">
23. <Parameters>
24. <Parameter Type="String">List 1</Parameter>
25. </Parameters>
26. </Method>
27. <Method Id="10" ParentId="5" Name="GetByTitle">
28. <Parameters>
29. <Parameter Type="String">List 2</Parameter>
30. </Parameters>
31. </Method>
32. </ObjectPaths>
33. </Request>

**Response 1:**

1. [
2. {
3. "SchemaVersion": "14.0.0.0", "LibraryVersion": "14.0.4104.1000", "ErrorInfo": null
4. }, 2, {
5. "IsNull": false
6. }, 4, {
7. "IsNull": false
8. }, 6, {
9. "IsNull": false
10. }, 8, {
11. "IsNull": false
12. }, 9, {
13. "\_ObjectIdentity\_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:6c4bd5ac-b10c-46f0-9553-be32439987d7"
14. }, 11, {
15. "IsNull": false
16. }, 12, {
17. "\_ObjectIdentity\_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:da4af6bf-43e6-463a-a95b-ece4183a7538"
18. }, 13, {
19. "\_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)\/"
20. }
21. ]

**Request 2:**

1. <Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0" LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library" xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
2. <Actions>
3. <ObjectPath Id="18" ObjectPathId="17" />
4. <ObjectPath Id="20" ObjectPathId="19" />
5. <ObjectIdentityQuery Id="21" ObjectPathId="19" />
6. </Actions>
7. <ObjectPaths>
8. <Property Id="17" ParentId="7" Name="Fields" />
9. <Method Id="19" ParentId="17" Name="AddFieldAsXml">
10. <Parameters>
11. <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>
12. <Parameter Type="Boolean">true</Parameter>
13. <Parameter Type="Enum">0</Parameter>
14. </Parameters>
15. </Method>
16. <Identity Id="7" Name="740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:6c4bd5ac-b10c-46f0-9553-be32439987d7" />
17. </ObjectPaths></Request>

**Response 2:**

1. [
2. {
3. "SchemaVersion": "14.0.0.0", "LibraryVersion": "14.0.4104.1000", "ErrorInfo": null
4. }, 18, {
5. "IsNull": false
6. }, 20, {
7. "IsNull": false
8. }, 21, {
9. "\_ObjectIdentity\_": "740c6a0b-85e2-48a0-a494-e0f1759d4aa7:web:eb66d01f-d638-41f8-81d7-1a58dd459268:list:6c4bd5ac-b10c-46f0-9553-be32439987d7:field:c84fe21c-7666-4129-85f8-1a317da06017"
10. }
11. ]

## Attempt to Delete a Site With an Account That Does Not Have Permissions for the Operation

The protocol client attempts to delete a [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba) [**object (1)**](#gt_8bb43a65-7a8c-4585-a7ed-23044772f8ca) on the protocol server. However, the current user does not have permissions to perform this operation, so deleting a site causes an error. The protocol server returns a [**CSOM error**](#gt_8d6d73a4-c5b5-4c61-b35b-6abf21551636). 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:**

1. <Request AddExpandoFieldTypeSuffix="true" SchemaVersion="14.0.0.0" LibraryVersion="14.0.4104.1000" ApplicationName=".NET Library" xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
2. <Actions>
3. <ObjectPath Id="2" ObjectPathId="1" />
4. <ObjectPath Id="4" ObjectPathId="3" />
5. <Method Name="DeleteObject" Id="5" ObjectPathId="3" />
6. </Actions>
7. <ObjectPaths>
8. <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
9. <Property Id="3" ParentId="1" Name="Web" />
10. </ObjectPaths></Request>

**Response:**

1. [
2. {
3. "SchemaVersion": "14.0.0.0",
4. "LibraryVersion": "14.0.4111.1000",
5. "ErrorInfo":
6. {
7. "ErrorMessage": "Access is denied.",
8. "ErrorValue": null
9. "ErrorCode": -2147024891,
10. "ErrorTypeName": "System.UnauthorizedAccessException"
11. }
12. }
13. ]

# Security

## Security Considerations for Implementers

None.

## Index of Security Parameters

None.

# 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
* Microsoft SharePoint Server 2016

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](#Appendix_A_Target_1): This relationship is available only in SharePoint Foundation 2013.

[<2> Section 3.2.5.3.1.5](#Appendix_A_Target_2): The **DiscussionBoard** base type is deprecated. SharePoint Foundation 2010 uses the **GenericList** base type for [**discussion boards**](#gt_e77640ca-3cf9-40df-9cac-95d2c3ad3a67).

[<3> Section 3.2.5.5.1.16](#Appendix_A_Target_3): This field value is available only in SharePoint Foundation 2013.

[<4> Section 3.2.5.27.1.1.17](#Appendix_A_Target_4): This property is available only in SharePoint Foundation 2013.

[<5> Section 3.2.5.27.1.1.18](#Appendix_A_Target_5): This property is available only in SharePoint Foundation 2013.

[<6> Section 3.2.5.27.1.1.19](#Appendix_A_Target_6): This property is available only in SharePoint Foundation 2013.

[<7> Section 3.2.5.35.2.2.1](#Appendix_A_Target_7): SharePoint Foundation 2010 will throw System.ArgumentException (-2147024809 “featdefScope”) for FeatureDefinitionScope.Farm.

[<8> Section 3.2.5.37.2.1.7](#Appendix_A_Target_8): This method is available only in SharePoint Foundation 2013.

[<9> Section 3.2.5.38.2.1.7](#Appendix_A_Target_9): This method is available only in SharePoint Foundation 2013.

[<10> Section 3.2.5.40.2.1.7](#Appendix_A_Target_10): This method is available only in SharePoint Foundation 2013.

[<11> Section 3.2.5.41.2.2.7](#Appendix_A_Target_11): This method is available only in SharePoint Foundation 2013.

[<12> Section 3.2.5.41.2.2.8](#Appendix_A_Target_12): This method is available only in SharePoint Foundation 2013.

[<13> Section 3.2.5.41.2.2.9](#Appendix_A_Target_13): This method is available only in SharePoint Foundation 2013.

[<14> Section 3.2.5.42.2.1.7](#Appendix_A_Target_14): This method is available only in SharePoint Foundation 2013.

[<15> Section 3.2.5.43.2.1.7](#Appendix_A_Target_15): This method is available only in SharePoint Foundation 2013.

[<16> Section 3.2.5.44.1.1.28](#Appendix_A_Target_16): This property is available only in SharePoint Foundation 2013.

[<17> Section 3.2.5.44.2.1.7](#Appendix_A_Target_17): This method is available only in SharePoint Foundation 2013.

[<18> Section 3.2.5.45.2.1.7](#Appendix_A_Target_18): This method is available only in SharePoint Foundation 2013.

[<19> Section 3.2.5.46.1.1.5](#Appendix_A_Target_19): This property is available only in SharePoint Foundation 2013.

[<20> Section 3.2.5.47.2.2.2](#Appendix_A_Target_20): This method is available only in SharePoint Foundation 2013.

[<21> Section 3.2.5.49.1.1.33](#Appendix_A_Target_21): This property is available only in SharePoint Foundation 2013.

[<22> Section 3.2.5.49.2.1.7](#Appendix_A_Target_22): This method is available only in SharePoint Foundation 2013.

[<23> Section 3.2.5.51.2.1.7](#Appendix_A_Target_23): This method is available only in SharePoint Foundation 2013.

[<24> Section 3.2.5.52.2.1.7](#Appendix_A_Target_24): This method is available only in SharePoint Foundation 2013.

[<25> Section 3.2.5.53.2.1.7](#Appendix_A_Target_25): This method is available only in SharePoint Foundation 2013.

[<26> Section 3.2.5.54.2.1.7](#Appendix_A_Target_26): This method is available only in SharePoint Foundation 2013.

[<27> Section 3.2.5.57.2.1.7](#Appendix_A_Target_27): This method is available only in SharePoint Foundation 2013.

[<28> Section 3.2.5.58.1.33](#Appendix_A_Target_28): This field value is available only in SharePoint Foundation 2013.

[<29> Section 3.2.5.58.1.34](#Appendix_A_Target_29): This field value is available only in SharePoint Foundation 2013.

[<30> Section 3.2.5.59.2.1.7](#Appendix_A_Target_30): This method is available only in SharePoint Foundation 2013.

[<31> Section 3.2.5.61.2.1.7](#Appendix_A_Target_31): This method is available only in SharePoint Foundation 2013.

[<32> Section 3.2.5.64.1.1.16](#Appendix_A_Target_32): This property is available only in SharePoint Foundation 2013.

[<33> Section 3.2.5.64.2.1.11](#Appendix_A_Target_33): This method is available only in SharePoint Foundation 2013.

[<34> Section 3.2.5.64.2.1.12](#Appendix_A_Target_34): This method is available only in SharePoint Foundation 2013.

[<35> Section 3.2.5.66.1.1.4](#Appendix_A_Target_35): This property is available only in SharePoint Foundation 2013.

[<36> Section 3.2.5.68.1.1.4](#Appendix_A_Target_36): This property is available only in SharePoint Foundation 2013.

[<37> Section 3.2.5.70.2.1.1](#Appendix_A_Target_37): This method is available only in SharePoint Foundation 2013.

[<38> Section 3.2.5.71.2.2.1](#Appendix_A_Target_38): This method is available only in SharePoint Foundation 2013.

[<39> Section 3.2.5.72.1.2.4](#Appendix_A_Target_39): This method is available only in SharePoint Foundation 2013.

[<40> Section 3.2.5.72.1.2.5](#Appendix_A_Target_40): This property is available only in SharePoint Foundation 2013.

[<41> Section 3.2.5.73.2.2.3](#Appendix_A_Target_41): This method is available only in SharePoint Foundation 2013.

[<42> Section 3.2.5.76.1.1.15](#Appendix_A_Target_42): This property is available only in SharePoint Foundation 2013.

[<43> Section 3.2.5.77.2.1.2](#Appendix_A_Target_43): This method is available only in SharePoint Foundation 2013.

[<44> Section 3.2.5.77.2.1.3](#Appendix_A_Target_44): This method is available only in SharePoint Foundation 2013.

[<45> Section 3.2.5.77.2.2.3](#Appendix_A_Target_45): This method is available only in SharePoint Foundation 2013.

[<46> Section 3.2.5.79.1.1.45](#Appendix_A_Target_46): This property is available only in SharePoint Foundation 2013.

[<47> Section 3.2.5.79.1.1.46](#Appendix_A_Target_47): This property is available only in SharePoint Foundation 2013.

[<48> Section 3.2.5.79.1.1.47](#Appendix_A_Target_48): This property is available only in SharePoint Foundation 2013.

[<49> Section 3.2.5.79.1.1.48](#Appendix_A_Target_49): This property is available only in SharePoint Foundation 2013.

[<50> Section 3.2.5.79.1.1.49](#Appendix_A_Target_50): This property is available only in SharePoint Foundation 2013.

[<51> Section 3.2.5.79.1.1.50](#Appendix_A_Target_51): This property is available only in SharePoint Foundation 2013.

[<52> Section 3.2.5.79.1.2.10](#Appendix_A_Target_52): This property is available only in SharePoint Foundation 2013.

[<53> Section 3.2.5.79.1.2.11](#Appendix_A_Target_53): This property is available only in SharePoint Foundation 2013.

[<54> Section 3.2.5.79.1.2.12](#Appendix_A_Target_54): This property is available only in SharePoint Foundation 2013.

[<55> Section 3.2.5.79.1.2.13](#Appendix_A_Target_55): This property is available only in SharePoint Foundation 2013.

[<56> Section 3.2.5.79.2.1.6](#Appendix_A_Target_56): This method is available only in SharePoint Foundation 2013.

[<57> Section 3.2.5.79.2.1.7](#Appendix_A_Target_57): This method is available only in SharePoint Foundation 2013.

[<58> Section 3.2.5.79.2.1.8](#Appendix_A_Target_58): This method is available only in SharePoint Foundation 2013.

[<59> Section 3.2.5.79.2.1.9](#Appendix_A_Target_59): This method is available only in SharePoint Foundation 2013.

[<60> Section 3.2.5.79.2.2.8](#Appendix_A_Target_60): This method is available only in SharePoint Foundation 2013.

[<61> Section 3.2.5.87.1.1.6](#Appendix_A_Target_61): This property is available only in SharePoint Foundation 2013.

[<62> Section 3.2.5.87.1.2.8](#Appendix_A_Target_62): This property is available only in SharePoint Foundation 2013.

[<63> Section 3.2.5.87.1.2.9](#Appendix_A_Target_63): This property is available only in SharePoint Foundation 2013.

[<64> Section 3.2.5.87.1.2.10](#Appendix_A_Target_64): This property is available only in SharePoint Foundation 2013.

[<65> Section 3.2.5.92.2.2.1](#Appendix_A_Target_65): This method is available only in SharePoint Foundation 2013.

[<66> Section 3.2.5.93.1.53](#Appendix_A_Target_66): This field value is available only in SharePoint Foundation 2013.

[<67> Section 3.2.5.93.1.54](#Appendix_A_Target_67): This field value is available only in SharePoint Foundation 2013.

[<68> Section 3.2.5.93.1.55](#Appendix_A_Target_68): This field value is available only in SharePoint Foundation 2013.

[<69> Section 3.2.5.93.1.58](#Appendix_A_Target_69): This field value is available only in SharePoint Foundation 2013.

[<70> Section 3.2.5.93.1.59](#Appendix_A_Target_70): This field value is available only in SharePoint Foundation 2013.

[<71> Section 3.2.5.95.2.2.1](#Appendix_A_Target_71): This method is available only in SharePoint Foundation 2013.

[<72> Section 3.2.5.96.1.1.4](#Appendix_A_Target_72): This property is available only in SharePoint Foundation 2013.

[<73> Section 3.2.5.96.1.1.5](#Appendix_A_Target_73): This property is available only in SharePoint Foundation 2013.

[<74> Section 3.2.5.97.2.1.1](#Appendix_A_Target_74): This method is available only in SharePoint Foundation 2013.

[<75> Section 3.2.5.97.2.2.2](#Appendix_A_Target_75): This method is available only in SharePoint Foundation 2013.

[<76> Section 3.2.5.97.2.2.3](#Appendix_A_Target_76): This method is available only in SharePoint Foundation 2013.

[<77> Section 3.2.5.100.1.1.5](#Appendix_A_Target_77): This property is available only in SharePoint Foundation 2013.

[<78> Section 3.2.5.106.1.11](#Appendix_A_Target_78): This field value is available only in SharePoint Foundation 2013.

[<79> Section 3.2.5.111.1.1.1](#Appendix_A_Target_79): This property is available only in SharePoint Foundation 2013.

[<80> Section 3.2.5.112.1.2.1](#Appendix_A_Target_80): This property is available only in SharePoint Foundation 2013.

[<81> Section 3.2.5.112.2.1.1](#Appendix_A_Target_81): This method is available only in SharePoint Foundation 2013.

[<82> Section 3.2.5.112.2.1.2](#Appendix_A_Target_82): This method is available only in SharePoint Foundation 2013.

[<83> Section 3.2.5.114.2.2.1](#Appendix_A_Target_83): This method is available only in SharePoint Foundation 2013.

[<84> Section 3.2.5.114.2.2.2](#Appendix_A_Target_84): This method is available only in SharePoint Foundation 2013.

[<85> Section 3.2.5.118.1.2.2](#Appendix_A_Target_85): This property is available only in SharePoint Foundation 2013.

[<86> Section 3.2.5.119.1.1.11](#Appendix_A_Target_86): This property is available only in SharePoint Foundation 2013.

[<87> Section 3.2.5.119.1.1.12](#Appendix_A_Target_87): This property is available only in SharePoint Foundation 2013.

[<88> Section 3.2.5.119.1.1.13](#Appendix_A_Target_88): This property is available only in SharePoint Foundation 2013.

[<89> Section 3.2.5.119.1.1.14](#Appendix_A_Target_89): This property is available only in SharePoint Foundation 2013.

[<90> Section 3.2.5.119.1.1.15](#Appendix_A_Target_90): This property is available only in SharePoint Foundation 2013.

[<91> Section 3.2.5.119.1.1.16](#Appendix_A_Target_91): This property is available only in SharePoint Foundation 2013.

[<92> Section 3.2.5.119.1.2.5](#Appendix_A_Target_92): This property is available only in SharePoint Foundation 2013.

[<93> Section 3.2.5.119.1.2.6](#Appendix_A_Target_93): This property is available only in SharePoint Foundation 2013.

[<94> Section 3.2.5.119.2.1.2](#Appendix_A_Target_94): This method is available only in SharePoint Foundation 2013.

[<95> Section 3.2.5.119.2.1.4](#Appendix_A_Target_95): This method is available only in SharePoint Foundation 2013.

[<96> Section 3.2.5.119.2.1.6](#Appendix_A_Target_96): This method is available only in SharePoint Foundation 2013.

[<97> Section 3.2.5.119.2.1.7](#Appendix_A_Target_97): This method is available only in SharePoint Foundation 2013.

[<98> Section 3.2.5.119.2.1.8](#Appendix_A_Target_98): This method is available only in SharePoint Foundation 2013.

[<99> Section 3.2.5.119.2.2.6](#Appendix_A_Target_99): This method is available only in SharePoint Foundation 2013.

[<100> Section 3.2.5.119.2.2.7](#Appendix_A_Target_100): This method is available only in SharePoint Foundation 2013.

[<101> Section 3.2.5.124.1.1.6](#Appendix_A_Target_101): This property is available only in SharePoint Foundation 2013.

[<102> Section 3.2.5.124.1.1.7](#Appendix_A_Target_102): This property is available only in SharePoint Foundation 2013.

[<103> Section 3.2.5.124.1.2.1](#Appendix_A_Target_103): This property is available only in SharePoint Foundation 2013.

[<104> Section 3.2.5.125.2.1.2](#Appendix_A_Target_104): This method is available only in SharePoint Foundation 2013.

[<105> Section 3.2.5.125.2.1.3](#Appendix_A_Target_105): This method is available only in SharePoint Foundation 2013.

[<106> Section 3.2.5.131.1.7](#Appendix_A_Target_106): This field value is available only in SharePoint Foundation 2013.

[<107> Section 3.2.5.131.1.8](#Appendix_A_Target_107): This field value is available only in SharePoint Foundation 2013.

[<108> Section 3.2.5.136.2.1.6](#Appendix_A_Target_108): This method is available only in SharePoint Foundation 2013.

[<109> Section 3.2.5.136.2.1.7](#Appendix_A_Target_109): This method is available only in SharePoint Foundation 2013.

[<110> Section 3.2.5.136.2.1.8](#Appendix_A_Target_110): This method is available only in SharePoint Foundation 2013.

[<111> Section 3.2.5.136.2.1.9](#Appendix_A_Target_111): This method is available only in SharePoint Foundation 2013.

[<112> Section 3.2.5.136.2.1.10](#Appendix_A_Target_112): This method is available only in SharePoint Foundation 2013.

[<113> Section 3.2.5.136.2.1.11](#Appendix_A_Target_113): This method is available only in SharePoint Foundation 2013.

[<114> Section 3.2.5.136.2.1.12](#Appendix_A_Target_114): This method is available only in SharePoint Foundation 2013.

[<115> Section 3.2.5.136.2.1.13](#Appendix_A_Target_115): This method is available only in SharePoint Foundation 2013.

[<116> Section 3.2.5.136.2.1.14](#Appendix_A_Target_116): This method is available only in SharePoint Foundation 2013.

[<117> Section 3.2.5.136.2.1.15](#Appendix_A_Target_117): This method is available only in SharePoint Foundation 2013.

[<118> Section 3.2.5.136.2.1.16](#Appendix_A_Target_118): This method is available only in SharePoint Foundation 2013.

[<119> Section 3.2.5.136.2.1.19](#Appendix_A_Target_119): This method is available only in SharePoint Foundation 2013.

[<120> Section 3.2.5.136.2.2.3](#Appendix_A_Target_120): This method is available only in SharePoint Foundation 2013.

[<121> Section 3.2.5.136.2.2.4](#Appendix_A_Target_121): This method is available only in SharePoint Foundation 2013.

[<122> Section 3.2.5.137.1.1.36](#Appendix_A_Target_122): This property is available only in SharePoint Foundation 2013.

[<123> Section 3.2.5.140.2.1.5](#Appendix_A_Target_123): This method is available only in SharePoint Foundation 2013.

[<124> Section 3.2.5.140.2.1.6](#Appendix_A_Target_124): This method is available only in SharePoint Foundation 2013.

[<125> Section 3.2.5.140.2.1.7](#Appendix_A_Target_125): This method is available only in SharePoint Foundation 2013.

[<126> Section 3.2.5.140.2.1.8](#Appendix_A_Target_126): This method is available only in SharePoint Foundation 2013.

[<127> Section 3.2.5.143.1.1.21](#Appendix_A_Target_127): This property is available only in SharePoint Foundation 2013.

[<128> Section 3.2.5.143.1.1.22](#Appendix_A_Target_128): This property is available only in SharePoint Foundation 2013.

[<129> Section 3.2.5.143.1.1.23](#Appendix_A_Target_129): This property is available only in SharePoint Foundation 2013.

[<130> Section 3.2.5.143.1.1.24](#Appendix_A_Target_130): This property is available only in SharePoint Foundation 2013.

[<131> Section 3.2.5.143.1.2.24](#Appendix_A_Target_131): This property is available only in SharePoint Foundation 2013.

[<132> Section 3.2.5.143.1.2.25](#Appendix_A_Target_132): This property is available only in SharePoint Foundation 2013.

[<133> Section 3.2.5.143.1.2.26](#Appendix_A_Target_133): This property is available only in SharePoint Foundation 2013.

[<134> Section 3.2.5.143.1.2.27](#Appendix_A_Target_134): This property is available only in SharePoint Foundation 2013.

[<135> Section 3.2.5.143.1.2.28](#Appendix_A_Target_135): This property is available only in SharePoint Foundation 2013.

[<136> Section 3.2.5.143.1.2.29](#Appendix_A_Target_136): This property is available only in SharePoint Foundation 2013.

[<137> Section 3.2.5.143.1.2.30](#Appendix_A_Target_137): This property is available only in SharePoint Foundation 2013.

[<138> Section 3.2.5.143.1.2.31](#Appendix_A_Target_138): This property is available only in SharePoint Foundation 2013.

[<139> Section 3.2.5.143.1.2.32](#Appendix_A_Target_139): This property is available only in SharePoint Foundation 2013.

[<140> Section 3.2.5.143.2.1.9](#Appendix_A_Target_140): This method is available only in SharePoint Foundation 2013.

[<141> Section 3.2.5.143.2.1.10](#Appendix_A_Target_141): This method is available only in SharePoint Foundation 2013.

[<142> Section 3.2.5.143.2.1.11](#Appendix_A_Target_142): This method is available only in SharePoint Foundation 2013.

[<143> Section 3.2.5.143.2.1.12](#Appendix_A_Target_143): This method is available only in SharePoint Foundation 2013.

[<144> Section 3.2.5.143.2.1.13](#Appendix_A_Target_144): This method is available only in SharePoint Foundation 2013.

[<145> Section 3.2.5.143.2.1.21](#Appendix_A_Target_145): This method is not available in SharePoint Foundation 2010 and SharePoint Foundation 2013. An exception of "NotImplementedException" will be thrown when making this call for SharePoint Server 2016.

[<146> Section 3.2.5.143.2.1.22](#Appendix_A_Target_146): This method is not available in SharePoint Foundation 2010 and SharePoint Foundation 2013. An exception of "NotImplementedException" will be thrown when making this call for SharePoint Server 2016.

[<147> Section 3.2.5.143.2.2.8](#Appendix_A_Target_147): This method is available only in SharePoint Foundation 2013.

[<148> Section 3.2.5.143.2.2.9](#Appendix_A_Target_148): This method is available only in SharePoint Foundation 2013.

[<149> Section 3.2.5.143.2.2.10](#Appendix_A_Target_149): This method is available only in SharePoint Foundation 2013.

[<150> Section 3.2.5.143.2.2.11](#Appendix_A_Target_150): This method is available only in SharePoint Foundation 2013.

[<151> Section 3.2.5.143.2.2.12](#Appendix_A_Target_151): This method is available only in SharePoint Foundation 2013.

[<152> Section 3.2.5.143.2.2.13](#Appendix_A_Target_152): This method is available only in SharePoint Foundation 2013.

[<153> Section 3.2.5.143.2.2.14](#Appendix_A_Target_153): This method is available only in SharePoint Foundation 2013.

[<154> Section 3.2.5.143.2.2.15](#Appendix_A_Target_154): This method is available only in SharePoint Foundation 2013.

[<155> Section 3.2.5.143.2.2.16](#Appendix_A_Target_155): This method is available only in SharePoint Foundation 2013.

[<156> Section 3.2.5.143.2.2.17](#Appendix_A_Target_156): This method is available only in SharePoint Foundation 2013.

[<157> Section 3.2.5.143.2.2.18](#Appendix_A_Target_157): This method is available only in SharePoint Foundation 2013.

[<158> Section 3.2.5.143.2.2.19](#Appendix_A_Target_158): This method is available only in SharePoint Foundation 2013.

[<159> Section 3.2.5.143.2.2.21](#Appendix_A_Target_159): This method is available only in SharePoint Foundation 2013.

[<160> Section 3.2.5.148.1.2.1](#Appendix_A_Target_160): This property is available only in SharePoint Foundation 2013.

[<161> Section 3.2.5.150.2.2.2](#Appendix_A_Target_161): This method is available only in SharePoint Foundation 2013.

[<162> Section 3.2.5.152.2.2.1](#Appendix_A_Target_162): This method is available only in SharePoint Foundation 2013.

[<163> Section 3.2.5.158](#Appendix_A_Target_163): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<164> Section 3.2.5.159](#Appendix_A_Target_164): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<165> Section 3.2.5.160](#Appendix_A_Target_165): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<166> Section 3.2.5.161](#Appendix_A_Target_166): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<167> Section 3.2.5.162](#Appendix_A_Target_167): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<168> Section 3.2.5.163](#Appendix_A_Target_168): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<169> Section 3.2.5.164](#Appendix_A_Target_169): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<170> Section 3.2.5.165](#Appendix_A_Target_170): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<171> Section 3.2.5.166](#Appendix_A_Target_171): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<172> Section 3.2.5.167](#Appendix_A_Target_172): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<173> Section 3.2.5.168](#Appendix_A_Target_173): This object and its fields are available only in SharePoint Foundation 2013.

[<174> Section 3.2.5.169](#Appendix_A_Target_174): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<175> Section 3.2.5.170](#Appendix_A_Target_175): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<176> Section 3.2.5.171](#Appendix_A_Target_176): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<177> Section 3.2.5.172](#Appendix_A_Target_177): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<178> Section 3.2.5.173](#Appendix_A_Target_178): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<179> Section 3.2.5.174](#Appendix_A_Target_179): This object and its properties are available only in SharePoint Foundation 2013.

[<180> Section 3.2.5.175](#Appendix_A_Target_180): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<181> Section 3.2.5.176](#Appendix_A_Target_181): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<182> Section 3.2.5.177](#Appendix_A_Target_182): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<183> Section 3.2.5.178](#Appendix_A_Target_183): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<184> Section 3.2.5.179](#Appendix_A_Target_184): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<185> Section 3.2.5.180](#Appendix_A_Target_185): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<186> Section 3.2.5.181](#Appendix_A_Target_186): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<187> Section 3.2.5.182](#Appendix_A_Target_187): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<188> Section 3.2.5.183](#Appendix_A_Target_188): This object and its properties are available only in SharePoint Foundation 2013.

[<189> Section 3.2.5.184](#Appendix_A_Target_189): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<190> Section 3.2.5.185](#Appendix_A_Target_190): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<191> Section 3.2.5.186](#Appendix_A_Target_191): This object and its properties are available only in SharePoint Foundation 2013.

[<192> Section 3.2.5.187](#Appendix_A_Target_192): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<193> Section 3.2.5.188](#Appendix_A_Target_193): This object and its fields are available only in SharePoint Foundation 2013.

[<194> Section 3.2.5.189](#Appendix_A_Target_194): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<195> Section 3.2.5.190](#Appendix_A_Target_195): This object and its properties are available only in SharePoint Foundation 2013.

[<196> Section 3.2.5.191](#Appendix_A_Target_196): This object and its properties are available only in SharePoint Foundation 2013.

[<197> Section 3.2.5.192](#Appendix_A_Target_197): This object and its properties are available only in SharePoint Foundation 2013.

[<198> Section 3.2.5.193](#Appendix_A_Target_198): This object and its properties are available only in SharePoint Foundation 2013.

[<199> Section 3.2.5.194](#Appendix_A_Target_199): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<200> Section 3.2.5.196](#Appendix_A_Target_200): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<201> Section 3.2.5.197](#Appendix_A_Target_201): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<202> Section 3.2.5.198](#Appendix_A_Target_202): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<203> Section 3.2.5.199](#Appendix_A_Target_203): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<204> Section 3.2.5.200](#Appendix_A_Target_204): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<205> Section 3.2.5.201](#Appendix_A_Target_205): This object and its properties are available only in SharePoint Foundation 2013.

[<206> Section 3.2.5.203](#Appendix_A_Target_206): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<207> Section 3.2.5.204](#Appendix_A_Target_207): This object and its properties are available only in SharePoint Foundation 2013.

[<208> Section 3.2.5.205](#Appendix_A_Target_208): This object and its fields are available only in SharePoint Foundation 2013.

[<209> Section 3.2.5.206](#Appendix_A_Target_209): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<210> Section 3.2.5.207](#Appendix_A_Target_210): This object and its properties are available only in SharePoint Foundation 2013.

[<211> Section 3.2.5.208](#Appendix_A_Target_211): This object and its properties are available only in SharePoint Foundation 2013.

[<212> Section 3.2.5.209](#Appendix_A_Target_212): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<213> Section 3.2.5.210](#Appendix_A_Target_213): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<214> Section 3.2.5.211](#Appendix_A_Target_214): This object and its properties are available only in SharePoint Foundation 2013.

[<215> Section 3.2.5.212](#Appendix_A_Target_215): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<216> Section 3.2.5.213](#Appendix_A_Target_216): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<217> Section 3.2.5.214](#Appendix_A_Target_217): This object and its properties are available only in SharePoint Foundation 2013.

[<218> Section 3.2.5.215](#Appendix_A_Target_218): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<219> Section 3.2.5.216](#Appendix_A_Target_219): This object and its fields are available only in SharePoint Foundation 2013.

[<220> Section 3.2.5.217](#Appendix_A_Target_220): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<221> Section 3.2.5.218](#Appendix_A_Target_221): This object and its fields are available only in SharePoint Foundation 2013.

[<222> Section 3.2.5.219](#Appendix_A_Target_222): This object and its properties are available only in SharePoint Foundation 2013.

[<223> Section 3.2.5.220](#Appendix_A_Target_223): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<224> Section 3.2.5.222](#Appendix_A_Target_224): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<225> Section 3.2.5.224](#Appendix_A_Target_225): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<226> Section 3.2.5.225](#Appendix_A_Target_226): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<227> Section 3.2.5.226](#Appendix_A_Target_227): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<228> Section 3.2.5.227](#Appendix_A_Target_228): This object and its properties are available only in SharePoint Foundation 2013.

[<229> Section 3.2.5.228](#Appendix_A_Target_229): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<230> Section 3.2.5.229](#Appendix_A_Target_230): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<231> Section 3.2.5.233](#Appendix_A_Target_231): This object and its methods are available only in SharePoint Foundation 2013.

[<232> Section 3.2.5.234](#Appendix_A_Target_232): This object and its fields are available only in SharePoint Foundation 2013.

[<233> Section 3.2.5.239](#Appendix_A_Target_233): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<234> Section 3.2.5.240](#Appendix_A_Target_234): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<235> Section 3.2.5.253.2.1.1](#Appendix_A_Target_235): This parameter is available only in SharePoint Foundation 2013. The following providers are supported: SPNavigationProvider, AdministrationQuickLaunchProvider, SharedServicesQuickLaunchProvider, GlobalNavSiteMapProvider, CombinedNavSiteMapProvider, CurrentNavSiteMapProvider, CurrentNavSiteMapProviderNoEncode, GlobalNavigation, CurrentNavigation, MySitePersonalQuickLaunchProvider, MySiteHostTopNavigationProvider, GlobalNavigationSwitchableProvider, CurrentNavigationSwitchableProvider, GlobalNavigationTaxonomyProvider, CurrentNavigationTaxonomyProvider, MySiteMapProvider, MySiteLeftNavProvider, MySiteDocumentStaticProvider, MySiteSitesPageStaticProvider, MySiteSubNavProvider, EduTopNavProvider, MySiteHostQuickLaunchProvider.

[<236> Section 3.2.5.253.2.1.2](#Appendix_A_Target_236): This parameter is available only in SharePoint Foundation 2013. The following providers are supported: SPNavigationProvider, AdministrationQuickLaunchProvider, SharedServicesQuickLaunchProvider, GlobalNavSiteMapProvider, CombinedNavSiteMapProvider, CurrentNavSiteMapProvider, CurrentNavSiteMapProviderNoEncode, GlobalNavigation, CurrentNavigation, MySitePersonalQuickLaunchProvider, MySiteHostTopNavigationProvider, GlobalNavigationSwitchableProvider, CurrentNavigationSwitchableProvider, GlobalNavigationTaxonomyProvider, CurrentNavigationTaxonomyProvider, MySiteMapProvider, MySiteLeftNavProvider, MySiteDocumentStaticProvider, MySiteSitesPageStaticProvider, MySiteSubNavProvider, EduTopNavProvider, MySiteHostQuickLaunchProvider.

[<237> Section 3.2.5.262](#Appendix_A_Target_237): This object and its properties and methods are available only in SharePoint Foundation 2013.

[<238> Section 3.2.5.273](#Appendix_A_Target_238): This object and its fields are available only in SharePoint Foundation 2013.

[<239> Section 3.2.5.274](#Appendix_A_Target_239): This object and its fields are available only in SharePoint Foundation 2013.

# Change Tracking

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

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

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

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

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

The changes made to this document are listed in the following table. For more information, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

| Section | Description | Revision class |
| --- | --- | --- |
| [3.2.5](#Section_191beaea4f6347db995ad066326cc26c) Message Processing Events and Sequencing Rules | Removed multiple immaterial subsections under this section. | Minor |
| [3.2.5.1.1.1](#Section_792fa4262de14b9e9e02a719e375a521) DefaultValue | Updated the description of DefaultValue. | Minor |
| [3.2.5.110.2.2.1](#Section_d97f0adfba544c5e842eaf30cee3da9b) GetRemoteContext | Updated the description for the GetRemoteContext method. | Major |
| [3.2.5.143.2.1.21](#Section_a3db1c2bc77e4836995dd0383780a50d) DeleteAnonymousLinkForObject | Added description for parameter removeAssociatedSharingLinkGroup. | Major |
| 3.2.5.143.2.1.21 DeleteAnonymousLinkForObject | Added product behavior note for DeleteAnonymousLinkForObject method. | Major |
| [3.2.5.143.2.1.22](#Section_ae64182c434940b0a1630842291e7b1e) DestroyOrganizationSharingLink | Added description for parameter removeAssociatedSharingLinkGroup. | Major |
| 3.2.5.143.2.1.22 DestroyOrganizationSharingLink | Added product behavior note for DestroyOrganizationSharingLink method. | Major |
| [3.2.5.143.2.1.27](#Section_f0b1f6e330f449f99d8e4f1b817a1e6c) GetClientSideWebParts | Added new section for this method. | Major |
| [3.2.5.300.1.1.2](#Section_8688f5efe0df454ebd5851b1cb2d27f6) CanCurrentUserManageOrganizationReadonlyLink | Updated the description of CanCurrentUserManageOrganizationReadonlyLink. | Minor |
| [3.2.5.300.1.1.4](#Section_6544bdd0d0114478af93e375cc51e7ee) CanCurrentUserManageReadonlyLink | Updated the description of CanCurrentUserManageReadonlyLink. | Minor |
| [3.2.5.300.1.1.21](#Section_55730c30524343e5a15b4a58eb89ad9a) IsUserSiteAdmin | Updated the description to clarify that this property indicates whether or not the current user is a site collection administrator. | Minor |
| [3.2.5.346](#Section_8a61c71efcef4ca6829882485dc30c52) Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentQueryResult | Added new section for this object. | Minor |
| [3.2.5.346.1.1.1](#Section_9ba4882da44e40a9ad29beec7d3418f9) ComponentType | Added new section for this property. | Major |
| [3.2.5.346.1.1.2](#Section_bb33a782dc924f56bf6b9230af3e8524) Id | Added new section for this property. | Major |
| [3.2.5.346.1.1.3](#Section_264df7ff463946dea0dda331fb2ded32) Manifest | Added new section for this property. | Major |
| [3.2.5.346.1.1.4](#Section_f1b2db45cba042f18d2fe13620c7a204) ManifestType | Added new section for this property. | Major |
| [3.2.5.346.1.1.5](#Section_f8fef69f6ef04f0eae6266db7ecb8395) Name | Added new section for this property. | Major |
| [3.2.5.346.1.1.6](#Section_b3a8110b1c994ffc8fc42116eab1e797) Status | Added new section for this property. | Major |
| [3.2.5.347](#Section_ef08979b0eff4284bbab8cf483e12804) Microsoft.SharePoint.ClientSideComponent.SPClientSideComponentType | Added new section for this enumeration. | Major |
| [3.2.5.347.1.1](#Section_dd2ce4fe1b9645e2bf302c7ff63963a8) Unknown | Added new section for this enumeration value. | Major |
| [3.2.5.347.1.2](#Section_a27c7732e50341e2a53b4c11b017f112) WebPart | Added new section for this enumeration value. | Major |
| [3.2.5.347.1.3](#Section_cc971136d5724d98a215187f2077a1d7) Application | Added new section for this enumeration value. | Major |
| [3.2.5.347.1.4](#Section_0bb16df39e3145a98fcb0e645048e035) Library | Added new section for this enumeration value. | Major |
| [3.2.5.348](#Section_31d55c43bf794dcf86cb3f73d9c93402) Microsoft.SharePoint.ClientSideComponent.SPClientSideManifestType | Added new section for this enumeration. | Major |
| [3.2.5.348.1.1](#Section_110b43e0894842f29c40c07264455fdb) Unknown | Added new section for this enumeration value. | Major |
| [3.2.5.348.1.2](#Section_3318e9b5d369405eae4b3fa0bddcf7eb) Component | Added new section for this enumeration value. | Major |
| [3.2.5.349](#Section_d9a72013a60540588f6efbed8c075fdc) Microsoft.SharePoint.ClientSideComponent.SPClientSideQueryStatus | Added new section for this enumeration. | Major |
| [3.2.5.349.1.1](#Section_db126e7cf7aa434caa9ec850d82c4c7c) Success | Added new section for this enumeration value. | Major |
| [3.2.5.349.1.2](#Section_6b4883c992c34fc2b3a112975ddb10c3) ErrorNotFound | Added new section for this enumeration value. | Major |
| [3.2.5.349.1.3](#Section_222557cbb8af461fb65ce96d06999b7b) ErrorDisabled | Added new section for this enumeration value. | Major |
| [3.2.5.349.1.4](#Section_5f3afe12fc0545e4bba6e2a9f1d462ad) ErrorInvalidManifest | Added new section for this enumeration value. | Major |
| [3.2.5.349.1.5](#Section_a60849382c8f43c2bc3953b399f435da) ErrorCustomScriptDisabled | Added new section for this enumeration value. | Major |
| [3.2.5.349.1.6](#Section_4db2854a52aa48c18c8d5b3ccb54e5a7) ErrorFeatureNotEnabled | Added new section for this enumeration value. | Major |

# Index

A

Abstract data model

[server](#section_9b2e8657025941cf89bef557edd2a0b5) 114

[server – parent types](#section_e603922ff5c24e97afaff045ad7e9dc4) 114

[server – REST List Items Support](#section_4a74edd73a3a4a2b8dbee36ce12e26c6) 115

[Add a list to a ListCollection example](#section_366d3fac74b74f188e878fda7418fc88) 830

[Add a lookup field example](#section_d955e26660ae40e38e3828edb79b3f3b) 831

[Applicability](#section_f6684bdb2ce44f69ae073950510490dc) 111

[Attempt to delete a site with an account that does not have permissions for the operation example](#section_6ebb08761e4a4b999b8818fd9d6e1cb2) 833

C

[Capability negotiation](#section_6d4540365e1744ab8165a52a68b39faa) 112

[Change tracking](#section_40e3a4c35f5a432e8a2e5552468b3eb7) 845

Collections

[EntityFieldCollection type](#section_b1b4cda2e509422f860f1e94272deb3d) 553

[Common Exceptions message](#section_d647eab83c4a4121b24835d7423a11da) 113

D

Data model - abstract

[server](#section_9b2e8657025941cf89bef557edd2a0b5) 114

[DateTimeFormat type](#section_6ba78830546b412197c6ffd34d55e435) 467

E

Examples

[add a list to a list collection](#section_366d3fac74b74f188e878fda7418fc88) 830

[add a lookup field](#section_d955e26660ae40e38e3828edb79b3f3b) 831

[attempt to delete a site with an account that does not have Permissions for the operation](#section_6ebb08761e4a4b999b8818fd9d6e1cb2) 833

[get the title of a web](#section_f72943bf60214a6fb6dc7e600cc7b56a) 828

[update the description of a list](#section_ec9d185e97c449e6bbb38de04445db47) 829

F

[Fields - vendor-extensible](#section_ab471245539d487a8952a1e43820a2c2) 112

G

[Get the title of a web example](#section_f72943bf60214a6fb6dc7e600cc7b56a) 828

[Glossary](#section_9345236a999b4c7ca604b11dee913037) 92

H

Higher-layer triggered events

[server](#section_478535b1d49b4b96b747fffab4da2381) 117

I

[Implementer - security considerations](#section_3d32c1e89f844bac9630eb0831297c48) 834

[Index of security parameters](#section_f3c3a710953b4b5d83df9d687f19a8aa) 834

[Informative references](#section_cd81bc6333b74a40bad6bf1a9358cb85) 110

Initialization

[server](#section_9388f6756fd44f089d0cdd3bb0d1d100) 117

[Introduction](#section_71a615c427ca4d4a962c1183f5957614) 92

L

[LimitedWebPartManager type](#section_20ba1133fa3d423bb5f7b26ca01b4498) 533

M

Message processing

[BasePermissions](#section_e4094e3f36fd4f2bbe9784ab39640eb3) 118

[BaseType](#section_b43e68f7b0104790b7c5c51fe46b8ec6) 120

[CalendarType](#section_752cdeeb3bb64dfb8e41a4e527de76cb) 122

[CamlQuery](#section_ac94feffae0648b6ad31f16609cdd6cf) 123

[ChangeAlert](#section_38793af8b85d40e6934752388b1f1270) 125

[ChangeCollection](#section_7588febe55154303955735796c981335) 127

[ChangeContentType](#section_503309561ff94b1ca0fbe5825266e2c9) 127

[ChangeField](#section_56112331207940a6be8f98af68d08206) 129

[ChangeFile](#section_3d86978c57f14744863da16a037fb277) 130

[ChangeFolder](#section_e7cdd80f67694685b1a5c8fa0d28840e) 132

[ChangeGroup](#section_e6cea483160948299603ee79800e824b) 133

[ChangeItem](#section_d0af2d6783cc4cb1867d291bfe3b6662) 135

[ChangeList](#section_48ccf8a5305749618cfdf619e461cd39) 137

[ChangeSite](#section_644d0b525e8d4cd08ece225b216613d2) 143

[ChangeToken](#section_9750fbba6717497ea1831715cac9a9fe) 144

ChangeType ([section 3.2.5.20](#section_f2b1b00a594042c7b89d39e4c2cb800b) 145, [section 3.2.5.241](#section_b99af3ad6337449cb00ad4d9952bc935) 693)

[ChangeUser](#section_07adb5be04ca4b65a38add026c78bebf) 148

[ChangeView](#section_63eb05b1a56f4af08c607e123e0ff557) 149

[ChangeWeb](#section_054478e4c916457d8bbabdc940d83a09) 151

[Collections - EntityFieldCollection](#section_b1b4cda2e509422f860f1e94272deb3d) 553

[ContentType](#section_c7f06ee691d641b382ec488d9a423227) 153

[ContentTypeCollection](#section_c15c3e7fc15b4030b823c20e0b52acef) 158

[ContentTypeCreationInformation](#section_d65a63f7999b4c10869342a45dde2f5c) 160

[ContentTypeId](#section_43b55c315ff3435cb7f08ef1006d07b1) 162

[FeatureCollection](#section_f951134a1e844c7bb1584703af134f5a) 164

[Field](#section_61a446ef3a4941b0a729656d860aaaa1) 167

[FieldCalculated](#section_03df460324f44809b6c02f705741232a) 176

[FieldChoice](#section_dd68e4aabaae49c3b2e18da25d187471) 185

[FieldCollection](#section_b6f537795bcb4917872dcfc955f2a017) 194

[FieldComputed](#section_07e5709a178d48a0b78fc4356bb446be) 199

[FieldCurrency](#section_d65ac97690a140b7aaaf604c9a86cd14) 208

FieldDateTime ([section 3.2.5.44](#section_09e3d64e904841949f9b3379e5da1a45) 217, [section 3.2.5.185](#section_29441872f43e48ac84c2760984dddc10) 598)

[FieldGuid](#section_f3ff9caa1bbb4997bb738101e8a82316) 226

[FieldLink](#section_d3326d2c50784cd69c18985c56dd2585) 234

[FieldLinkCollection](#section_a9605d656c6349139400dc0e04921e9c) 235

[FieldLookup](#section_8bdbb5c4611b4dceb98bca3d3c74b3a8) 237

[FieldMultiChoice](#section_7da4458d94dd483bac45afaa2e3d3954) 248

[FieldMultiLineText](#section_6d24ee3c9a6644ac9ca7d9037bee857a) 257

[FieldNumber](#section_2fca124e2bc146b3925c9a352baa7aac) 267

[FieldRatingScale](#section_062c007e67b2426ea21e64b84baba3ae) 276

[FieldRatingScaleQuestionAnswer](#section_4a1cddd93d0541179e8edc908ec5d8ac) 286

[FieldStringValues](#section_0d9a86fc110a418e9c6982cb97c04482) 286

[FieldText](#section_a5c3c47f302f4ad9a7cc767c213bf62b) 287

[FieldType](#section_24baadd337f649988fc0a2d1482029bb) 295

[FieldUrl](#section_275b777e6d3a4745a21858ce91984e27) 299

[FieldUrlValue](#section_7d386e0cc804458989f5243be93f61e5) 308

[FieldUser](#section_37e76f54dcdd4eb7877146afa22cb51c) 308

[File](#section_6633cc7343c742b1a169f91b4ec41a1d) 320

[FileCollection](#section_94aab407c4cb4715952fa03983b0cce9) 334

[FileCreationInformation](#section_2f9afbcf425e49c3a0ecda8eb40ad5e9) 336

[FileSaveBinaryInformation](#section_c231de3250da40818e246e64818df160) 338

[FileSystemObjectType](#section_94ba3549187e4e249c63d5ebf78b806e) 339

[FileVersion](#section_17d63dbfce2945e5ab9e821955c19106) 339

[FileVersionCollection](#section_7f0ff3896ee94ce2bb055a85f22288ff) 342

[Folder](#section_9ae5f546597f44ffbfe98a7de9b74dd4) 343

[FolderCollection](#section_373d076d51804f7e82e6c7fb242b4bdb) 348

[Form](#section_27f94c9e7756476ba64b087f0aaf77f4) 349

[FormCollection](#section_9e7860bc45934df0bfd4e5b379664a52) 350

[Group](#section_c96c2c419eba45bd88044d5e5719f390) 351

[GroupCollection](#section_34e0f6c0c7714050aee0eb91a4469180) 354

[List](#section_53507e45ff88440b9c3226b84992e6de) 356

[ListCollection](#section_5796b8e2b0c94917b41d0d1ead4237d8) 378

[ListCreationInformation](#section_869b009383ec4c9f97c8011919af8c9c) 380

[ListDataValidationExceptionValue](#section_23e7f164fd2e4346abf3ece47115f810) 382

[ListItem](#section_4a06e0a3275247b292f6970b437d1e17) 385

[ListItemCollection](#section_c96682fb1d064a309d105a4ccb4104b2) 394

[ListItemCollectionPosition](#section_8a753030d4ae4b5ba8ec022dca629cdb) 395

ListItemCreationInformation ([section 3.2.5.90](#section_3b5441a6b2c84a579ae6fd033423efa3) 396, [section 3.2.5.217](#section_a8c51f6b9afb48bbb9195d8cd3803147) 655, [section 3.2.5.223.2.1.1](#section_ab51e475a9af461dbd1c838e8339e12f) 670, [section 3.2.5.223.2.1.2](#section_6e43426664d74a33ab6fce04f63b1cea) 670)

[ListTemplateCollection](#section_ba2e818a6b374767a24f7c440548d5b3) 399

[ListTemplateType](#section_57397b67033d4f3087ae4a251f8c9274) 400

[MoveOperations](#section_97bd1f7ba17349e1a321942b086c6c96) 406

[Navigation](#section_91aa1fcd014446918b594f287d8d7e4b) 407

[NavigationNode](#section_4785744b2c744c37b1203e8ef99a6f4d) 408

[NavigationNodeCollection](#section_beeb24dbc9e64b91a59585cf1e45ec00) 410

[PageType](#section_8f60ba36089b42afae4fc96e676ead56) 412

[Principal](#section_280fdb7129a9449aba93bac88eb5e624) 413

[RecycleBinItem](#section_50a7b0e6c6f547269691d3ab24b29038) 416

[RecycleBinItemCollection](#section_f6e33ccf167e43b39b9e74300201df06) 419

[RecycleBinItemType](#section_722a1830d2de44c7bcf108490676a918) 421

[RelatedField](#section_342779c14123445a90cd12353c9da2ca) 672

RelatedFieldCollection ([section 3.2.5.79.2.2.8](#section_566986485ce9437ea386367af252d461) 376, [section 3.2.5.226](#section_e4b087e985d94a939d330f1121f48d8e) 673)

[RoleAssignment](#section_d0fb3795fb02411da16df2728281157a) 426

[RoleAssignmentCollection](#section_38e087d2cd134252abdaf2f97068405a) 427

[RoleDefinition](#section_0475046e87aa4c21b26dd218d57cbf1b) 429

[RoleDefinitionBindingCollection](#section_ebd2219111394c0c8a5dfae110d799c0) 432

[RoleDefinitionCollection](#section_676f405e4ff941bcaedb19ea012b8cb7) 433

[RoleType](#section_e7d6b161115a4d1db0249e6ed9aeb133) 436

[SecurableObject](#section_c783033cfd204328988b0a73a3accd27) 437

[Site](#section_0fa9ce5a5fe54a19a3116f2737db140d) 439

[UsageInfo](#section_441471b326e840a090e65806e189509f) 453

[User](#section_9bbe5244e5604c3fb739f7bf9b3359b7) 455

[UserCollection](#section_1e2b4d61ce8c4fbb962ebceb1db0cb1c) 458

[UserCustomAction](#section_7453b3c3956544959599d5ebae50dbdb) 461

[UserCustomActionCollection](#section_bf262d48d956484394b083ad9a241c66) 465

[UserCustomActionRegistrationType](#section_c3d23ccd29634096ab29308caee5e302) 466

[UserCustomActionScope](#section_4e4337da1bc344c6bda2c44ad215a077) 467

[Utilities - DateTimeFormat](#section_6ba78830546b412197c6ffd34d55e435) 467

[Utilities - PrincipalInfo](#section_35183246a4ee4aa4bce3bacd4e8cd845) 469

[Utilities - Utility](#section_f4c6555fb84b4b5c9bae5e06501acfe6) 472

[View](#section_6be977215f6340408e4786ab943cf266) 483

[ViewCollection](#section_d2cac262e05e45a2931a0e902daaaf26) 491

[ViewCreationInformation](#section_e9f22c70bb1344989a92d054d3608af7) 492

[ViewFieldCollection](#section_237fcc0000e245e8992c1f3093387a0d) 493

[ViewScope](#section_c420b94ae7854af38681853a3da67f61) 496

[ViewType](#section_7fedf32da237440a84ba8b34e942b9dc) 497

Web ([section 3.2.5.143](#section_850bfecad9414c598a2f728a9d500fcd) 498, [section 3.2.5.192](#section_56054b895c3d4895898c11a97bb2b398) 614, [section 3.2.5.193](#section_d39d3e10f5704efbbc0e6fd45877f049) 616, [section 3.2.5.194](#section_568bd019b18d4623a2cfca8826791bd5) 617)

[WebCollection](#section_cb7347f0405b4ee9a57ae1ef350e2630) 531

[WebCreationInformation](#section_cf85a07218774786a5e23e7c2988321e) 532

[WebParts - LimitedWebPartManager](#section_20ba1133fa3d423bb5f7b26ca01b4498) 533

[WebParts - PersonalizationScope](#section_a942742f40624390ab2d2a842908110e) 536

[WebParts - WebPart](#section_e0d8cbed27464f0f82cd41e44785f953) 536

[WebParts - WebPartDefinition](#section_3bf759e88eb1482e8c7ece9a1728e5fa) 538

[WebParts - WebPartDefinitionCollection](#section_756ed17da3a643d1be22fb3b446f4003) 540

[WebTemplate](#section_67995923bec74caba1b2e4b84f7ea4b8) 541

[WebTemplateCollection](#section_1a69ba9c18574047bfedb00ae6760112) 543

[Workflow - WorkflowAssociation](#section_abae5dc0862343b4b4674f6e5fcd517c) 544

[Workflow - WorkflowAssociationCollection](#section_db6df150c328408787e8f82caf010142) 548

[Workflow - WorkflowAssociationCreationInfo](#section_2d9c748b17ec4982b0f8f572ac0d6fbf) 549

[Workflow - WorkflowTemplate](#section_0794addef46e4b2ba5df9df0b81f56af) 550

[Workflow - WorkflowTemplateCollection](#section_baf14d705f3c41ee9368abf0d2f1daec) 552

Messages

[Common Exceptions](#section_d647eab83c4a4121b24835d7423a11da) 113

[transport](#section_7a64544772044cd4be60045c766a02ef) 113

N

[Normative references](#section_7f048fab52724887bcc6639508440d9c) 109

O

Other local events

[server](#section_97bbf583964640d9a0297d4a4e3bd930) 827

[Overview (synopsis)](#section_41aec230d096403d995461b64d2d1580) 110

P

[Parameters - security index](#section_f3c3a710953b4b5d83df9d687f19a8aa) 834

[Parent types – abstract data model](#section_e603922ff5c24e97afaff045ad7e9dc4) 114

[PersonalizationScope type](#section_a942742f40624390ab2d2a842908110e) 536

[Preconditions](#section_bd18b5bf36ba42248c2758a2525bbd50) 111

[Prerequisites](#section_bd18b5bf36ba42248c2758a2525bbd50) 111

[PrincipalInfo type](#section_35183246a4ee4aa4bce3bacd4e8cd845) 469

[Product behavior](#section_70359f25646445cf9a9331817f28cc36) 835

R

[References](#section_32e9ba13e4704cdc9b9bd58bd986013d) 109

[informative](#section_cd81bc6333b74a40bad6bf1a9358cb85) 110

[normative](#section_7f048fab52724887bcc6639508440d9c) 109

[Relationship to other protocols](#section_6f23b520e8b54f3eb7c9e8e118891fd8) 111

[REST List Items Support – abstract data model](#section_4a74edd73a3a4a2b8dbee36ce12e26c6) 115

S

Security

[implementer considerations](#section_3d32c1e89f844bac9630eb0831297c48) 834

[parameter index](#section_f3c3a710953b4b5d83df9d687f19a8aa) 834

Sequencing rules

[BasePermissions](#section_e4094e3f36fd4f2bbe9784ab39640eb3) 118

[BaseType](#section_b43e68f7b0104790b7c5c51fe46b8ec6) 120

[CalendarType](#section_752cdeeb3bb64dfb8e41a4e527de76cb) 122

[CamlQuery](#section_ac94feffae0648b6ad31f16609cdd6cf) 123

[ChangeAlert](#section_38793af8b85d40e6934752388b1f1270) 125

[ChangeCollection](#section_7588febe55154303955735796c981335) 127

[ChangeContentType](#section_503309561ff94b1ca0fbe5825266e2c9) 127

[ChangeField](#section_56112331207940a6be8f98af68d08206) 129

[ChangeFile](#section_3d86978c57f14744863da16a037fb277) 130

[ChangeFolder](#section_e7cdd80f67694685b1a5c8fa0d28840e) 132

[ChangeGroup](#section_e6cea483160948299603ee79800e824b) 133

[ChangeItem](#section_d0af2d6783cc4cb1867d291bfe3b6662) 135

[ChangeList](#section_48ccf8a5305749618cfdf619e461cd39) 137

[ChangeSite](#section_644d0b525e8d4cd08ece225b216613d2) 143

[ChangeToken](#section_9750fbba6717497ea1831715cac9a9fe) 144

ChangeType ([section 3.2.5.20](#section_f2b1b00a594042c7b89d39e4c2cb800b) 145, [section 3.2.5.241](#section_b99af3ad6337449cb00ad4d9952bc935) 693)

[ChangeUser](#section_07adb5be04ca4b65a38add026c78bebf) 148

[ChangeView](#section_63eb05b1a56f4af08c607e123e0ff557) 149

[ChangeWeb](#section_054478e4c916457d8bbabdc940d83a09) 151

[Collections - EntityFieldCollection](#section_b1b4cda2e509422f860f1e94272deb3d) 553

[ContentType](#section_c7f06ee691d641b382ec488d9a423227) 153

[ContentTypeCollection](#section_c15c3e7fc15b4030b823c20e0b52acef) 158

[ContentTypeCreationInformation](#section_d65a63f7999b4c10869342a45dde2f5c) 160

[ContentTypeId](#section_43b55c315ff3435cb7f08ef1006d07b1) 162

[FeatureCollection](#section_f951134a1e844c7bb1584703af134f5a) 164

[Field](#section_61a446ef3a4941b0a729656d860aaaa1) 167

[FieldCalculated](#section_03df460324f44809b6c02f705741232a) 176

[FieldChoice](#section_dd68e4aabaae49c3b2e18da25d187471) 185

[FieldCollection](#section_b6f537795bcb4917872dcfc955f2a017) 194

[FieldComputed](#section_07e5709a178d48a0b78fc4356bb446be) 199

[FieldCurrency](#section_d65ac97690a140b7aaaf604c9a86cd14) 208

FieldDateTime ([section 3.2.5.44](#section_09e3d64e904841949f9b3379e5da1a45) 217, [section 3.2.5.185](#section_29441872f43e48ac84c2760984dddc10) 598)

[FieldGuid](#section_f3ff9caa1bbb4997bb738101e8a82316) 226

[FieldLink](#section_d3326d2c50784cd69c18985c56dd2585) 234

[FieldLinkCollection](#section_a9605d656c6349139400dc0e04921e9c) 235

[FieldLookup](#section_8bdbb5c4611b4dceb98bca3d3c74b3a8) 237

[FieldMultiChoice](#section_7da4458d94dd483bac45afaa2e3d3954) 248

[FieldMultiLineText](#section_6d24ee3c9a6644ac9ca7d9037bee857a) 257

[FieldNumber](#section_2fca124e2bc146b3925c9a352baa7aac) 267

[FieldRatingScale](#section_062c007e67b2426ea21e64b84baba3ae) 276

[FieldRatingScaleQuestionAnswer](#section_4a1cddd93d0541179e8edc908ec5d8ac) 286

[FieldStringValues](#section_0d9a86fc110a418e9c6982cb97c04482) 286

[FieldText](#section_a5c3c47f302f4ad9a7cc767c213bf62b) 287

[FieldType](#section_24baadd337f649988fc0a2d1482029bb) 295

[FieldUrl](#section_275b777e6d3a4745a21858ce91984e27) 299

[FieldUrlValue](#section_7d386e0cc804458989f5243be93f61e5) 308

[FieldUser](#section_37e76f54dcdd4eb7877146afa22cb51c) 308

[File](#section_6633cc7343c742b1a169f91b4ec41a1d) 320

[FileCollection](#section_94aab407c4cb4715952fa03983b0cce9) 334

[FileCreationInformation](#section_2f9afbcf425e49c3a0ecda8eb40ad5e9) 336

[FileSaveBinaryInformation](#section_c231de3250da40818e246e64818df160) 338

[FileSystemObjectType](#section_94ba3549187e4e249c63d5ebf78b806e) 339

[FileVersion](#section_17d63dbfce2945e5ab9e821955c19106) 339

[FileVersionCollection](#section_7f0ff3896ee94ce2bb055a85f22288ff) 342

[Folder](#section_9ae5f546597f44ffbfe98a7de9b74dd4) 343

[FolderCollection](#section_373d076d51804f7e82e6c7fb242b4bdb) 348

[Form](#section_27f94c9e7756476ba64b087f0aaf77f4) 349

[FormCollection](#section_9e7860bc45934df0bfd4e5b379664a52) 350

[Group](#section_c96c2c419eba45bd88044d5e5719f390) 351

[GroupCollection](#section_34e0f6c0c7714050aee0eb91a4469180) 354

[List](#section_53507e45ff88440b9c3226b84992e6de) 356

[ListCollection](#section_5796b8e2b0c94917b41d0d1ead4237d8) 378

[ListCreationInformation](#section_869b009383ec4c9f97c8011919af8c9c) 380

[ListDataValidationExceptionValue](#section_23e7f164fd2e4346abf3ece47115f810) 382

[ListItem](#section_4a06e0a3275247b292f6970b437d1e17) 385

[ListItemCollection](#section_c96682fb1d064a309d105a4ccb4104b2) 394

[ListItemCollectionPosition](#section_8a753030d4ae4b5ba8ec022dca629cdb) 395

ListItemCreationInformation ([section 3.2.5.90](#section_3b5441a6b2c84a579ae6fd033423efa3) 396, [section 3.2.5.217](#section_a8c51f6b9afb48bbb9195d8cd3803147) 655, [section 3.2.5.223.2.1.1](#section_ab51e475a9af461dbd1c838e8339e12f) 670, [section 3.2.5.223.2.1.2](#section_6e43426664d74a33ab6fce04f63b1cea) 670)

[ListTemplateCollection](#section_ba2e818a6b374767a24f7c440548d5b3) 399

[ListTemplateType](#section_57397b67033d4f3087ae4a251f8c9274) 400

[MoveOperations](#section_97bd1f7ba17349e1a321942b086c6c96) 406

[Navigation](#section_91aa1fcd014446918b594f287d8d7e4b) 407

[NavigationNode](#section_4785744b2c744c37b1203e8ef99a6f4d) 408

[NavigationNodeCollection](#section_beeb24dbc9e64b91a59585cf1e45ec00) 410

[PageType](#section_8f60ba36089b42afae4fc96e676ead56) 412

[Principal](#section_280fdb7129a9449aba93bac88eb5e624) 413

[RecycleBinItem](#section_50a7b0e6c6f547269691d3ab24b29038) 416

[RecycleBinItemCollection](#section_f6e33ccf167e43b39b9e74300201df06) 419

[RecycleBinItemType](#section_722a1830d2de44c7bcf108490676a918) 421

[RelatedField](#section_342779c14123445a90cd12353c9da2ca) 672

RelatedFieldCollection ([section 3.2.5.79.2.2.8](#section_566986485ce9437ea386367af252d461) 376, [section 3.2.5.226](#section_e4b087e985d94a939d330f1121f48d8e) 673)

[RoleAssignment](#section_d0fb3795fb02411da16df2728281157a) 426

[RoleAssignmentCollection](#section_38e087d2cd134252abdaf2f97068405a) 427

[RoleDefinition](#section_0475046e87aa4c21b26dd218d57cbf1b) 429

[RoleDefinitionBindingCollection](#section_ebd2219111394c0c8a5dfae110d799c0) 432

[RoleDefinitionCollection](#section_676f405e4ff941bcaedb19ea012b8cb7) 433

[RoleType](#section_e7d6b161115a4d1db0249e6ed9aeb133) 436

[SecurableObject](#section_c783033cfd204328988b0a73a3accd27) 437

[Site](#section_0fa9ce5a5fe54a19a3116f2737db140d) 439

[UsageInfo](#section_441471b326e840a090e65806e189509f) 453

[User](#section_9bbe5244e5604c3fb739f7bf9b3359b7) 455

[UserCollection](#section_1e2b4d61ce8c4fbb962ebceb1db0cb1c) 458

[UserCustomAction](#section_7453b3c3956544959599d5ebae50dbdb) 461

[UserCustomActionCollection](#section_bf262d48d956484394b083ad9a241c66) 465

[UserCustomActionRegistrationType](#section_c3d23ccd29634096ab29308caee5e302) 466

[UserCustomActionScope](#section_4e4337da1bc344c6bda2c44ad215a077) 467

[Utilities - DateTimeFormat](#section_6ba78830546b412197c6ffd34d55e435) 467

[Utilities - PrincipalInfo](#section_35183246a4ee4aa4bce3bacd4e8cd845) 469

[Utilities - Utility](#section_f4c6555fb84b4b5c9bae5e06501acfe6) 472

[View](#section_6be977215f6340408e4786ab943cf266) 483

[ViewCollection](#section_d2cac262e05e45a2931a0e902daaaf26) 491

[ViewCreationInformation](#section_e9f22c70bb1344989a92d054d3608af7) 492

[ViewFieldCollection](#section_237fcc0000e245e8992c1f3093387a0d) 493

[ViewScope](#section_c420b94ae7854af38681853a3da67f61) 496

[ViewType](#section_7fedf32da237440a84ba8b34e942b9dc) 497

Web ([section 3.2.5.143](#section_850bfecad9414c598a2f728a9d500fcd) 498, [section 3.2.5.192](#section_56054b895c3d4895898c11a97bb2b398) 614, [section 3.2.5.193](#section_d39d3e10f5704efbbc0e6fd45877f049) 616, [section 3.2.5.194](#section_568bd019b18d4623a2cfca8826791bd5) 617)

[WebCollection](#section_cb7347f0405b4ee9a57ae1ef350e2630) 531

[WebCreationInformation](#section_cf85a07218774786a5e23e7c2988321e) 532

[WebParts - LimitedWebPartManager](#section_20ba1133fa3d423bb5f7b26ca01b4498) 533

[WebParts - PersonalizationScope](#section_a942742f40624390ab2d2a842908110e) 536

[WebParts - WebPart](#section_e0d8cbed27464f0f82cd41e44785f953) 536

[WebParts - WebPartDefinition](#section_3bf759e88eb1482e8c7ece9a1728e5fa) 538

[WebParts - WebPartDefinitionCollection](#section_756ed17da3a643d1be22fb3b446f4003) 540

[WebTemplate](#section_67995923bec74caba1b2e4b84f7ea4b8) 541

[WebTemplateCollection](#section_1a69ba9c18574047bfedb00ae6760112) 543

[Workflow - WorkflowAssociation](#section_abae5dc0862343b4b4674f6e5fcd517c) 544

[Workflow - WorkflowAssociationCollection](#section_db6df150c328408787e8f82caf010142) 548

[Workflow - WorkflowAssociationCreationInfo](#section_2d9c748b17ec4982b0f8f572ac0d6fbf) 549

[Workflow - WorkflowTemplate](#section_0794addef46e4b2ba5df9df0b81f56af) 550

[Workflow - WorkflowTemplateCollection](#section_baf14d705f3c41ee9368abf0d2f1daec) 552

Server

[abstract data model](#section_9b2e8657025941cf89bef557edd2a0b5) 114

[abstract data model – parent types](#section_e603922ff5c24e97afaff045ad7e9dc4) 114

[abstract data model – REST List Items Support](#section_4a74edd73a3a4a2b8dbee36ce12e26c6) 115

[higher-layer triggered events](#section_478535b1d49b4b96b747fffab4da2381) 117

[initialization](#section_9388f6756fd44f089d0cdd3bb0d1d100) 117

[other local events](#section_97bbf583964640d9a0297d4a4e3bd930) 827

[overview](#section_1eb5bf91ac5b4fedb75f9d9d19a501e8) 114

[timer events](#section_dc5e9f1cfea041589c81b8c01c769b6f) 827

[timers](#section_e4cac62dc8434b418f35c1da1d57aef6) 116

[Standards assignments](#section_8b6b4670fdfb43a489024cfef7e3b1ce) 112

T

Timer events

[server](#section_dc5e9f1cfea041589c81b8c01c769b6f) 827

Timers

[server](#section_e4cac62dc8434b418f35c1da1d57aef6) 116

[Tracking changes](#section_40e3a4c35f5a432e8a2e5552468b3eb7) 845

[Transport](#section_7a64544772044cd4be60045c766a02ef) 113

Triggered events - higher-layer

[server](#section_478535b1d49b4b96b747fffab4da2381) 117

U

[Update the description of a list example](#section_ec9d185e97c449e6bbb38de04445db47) 829

Utilities

[DateTimeFormat type](#section_6ba78830546b412197c6ffd34d55e435) 467

[PrincipalInfo type](#section_35183246a4ee4aa4bce3bacd4e8cd845) 469

[Utility type](#section_f4c6555fb84b4b5c9bae5e06501acfe6) 472

[Utility type](#section_f4c6555fb84b4b5c9bae5e06501acfe6) 472

V

[Vendor-extensible fields](#section_ab471245539d487a8952a1e43820a2c2) 112

[Versioning](#section_6d4540365e1744ab8165a52a68b39faa) 112

W

[WebPart type](#section_e0d8cbed27464f0f82cd41e44785f953) 536

[WebPartDefinition type](#section_3bf759e88eb1482e8c7ece9a1728e5fa) 538

[WebPartDefinitionCollection type](#section_756ed17da3a643d1be22fb3b446f4003) 540

WebParts

[LimitedWebPartManager type](#section_20ba1133fa3d423bb5f7b26ca01b4498) 533

[PersonalizationScope type](#section_a942742f40624390ab2d2a842908110e) 536

[WebPart type](#section_e0d8cbed27464f0f82cd41e44785f953) 536

[WebPartDefinition type](#section_3bf759e88eb1482e8c7ece9a1728e5fa) 538

[WebPartDefinitionCollection type](#section_756ed17da3a643d1be22fb3b446f4003) 540

Workflow

[WorkflowAssociation type](#section_abae5dc0862343b4b4674f6e5fcd517c) 544

[WorkflowAssociationCollection type](#section_db6df150c328408787e8f82caf010142) 548

[WorkflowAssociationCreationInfo type](#section_2d9c748b17ec4982b0f8f572ac0d6fbf) 549

[WorkflowTemplate type](#section_0794addef46e4b2ba5df9df0b81f56af) 550

[WorkflowTemplateCollection type](#section_baf14d705f3c41ee9368abf0d2f1daec) 552

[WorkflowAssociation type](#section_abae5dc0862343b4b4674f6e5fcd517c) 544

[WorkflowAssociationCollection type](#section_db6df150c328408787e8f82caf010142) 548

[WorkflowAssociationCreationInfo type](#section_2d9c748b17ec4982b0f8f572ac0d6fbf) 549

[WorkflowTemplate type](#section_0794addef46e4b2ba5df9df0b81f56af) 550

WorkflowTemplateCollection type ([section 3.2.5.157](#section_baf14d705f3c41ee9368abf0d2f1daec) 552, [section 3.2.5.158](#section_b1b4cda2e509422f860f1e94272deb3d) 553)