

Preliminary

[MS-EMMCOSM]: Enterprise Managed Metadata Client-Side Object Model Protocol Specification

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1 Introduction

The Enterprise Managed Metadata Client-Side Object Model Protocol provides types, methods, and properties to enable a protocol client to create, read, update, and delete enterprise metadata on a collaboration server.

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

1.1 Glossary

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

Coordinated Universal Time (UTC)
GUID
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
language code identifier (LCID)

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

Boolean
CSOM Boolean
CSOM DateTime
CSOM dictionary
CSOM GUID
CSOM Int32
CSOM String
field
Hypertext Markup Language (HTML)
JavaScript Object Notation (JSON)
list item

lookup field
orphaned term
site
site collection
source term
term
term label
term set
term store
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
Web application
Web site
XML schema

The following terms are specific to this document:

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

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

1.2 References

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

1.2.1 Normative References

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

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

[MS-EMMSTORE] Microsoft Corporation, "[Enterprise Metadata Service Database Schema Specification](#)".

[MS-EMMWCF] Microsoft Corporation, "[Metadata Shared Service WCF Service Protocol Specification](#)".

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

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

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

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

[RFC4627] Crockford, D., "The application/json Media Type for Javascript Object Notation (JSON)", RFC 4627, July 2006, <http://www.ietf.org/rfc/rfc4627.txt>

1.2.2 Informative References

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

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

1.3 Overview

This protocol defines types, methods, and properties that a protocol client uses to access enterprise managed metadata in a **term store** on a protocol server. Some typical scenarios in which a protocol client could use this protocol are to retrieve **terms**, add terms, add **term labels**, or remove terms.

1.4 Relationship to Other Protocols

The Enterprise Managed Metadata Client-Side Object Model Protocol is a set of types, properties, and methods that can be accessed by using the SharePoint Client Query protocol as described in [\[MS-CSOM\]](#). This protocol uses **JSON** as described in [\[RFC4627\]](#) to format data returned to a protocol client. This protocol also uses **HTTP**, as described in [\[RFC2616\]](#), and **HTTPS**, as described in [\[RFC2818\]](#). The dependencies for this protocol are shown in the following layering diagram.

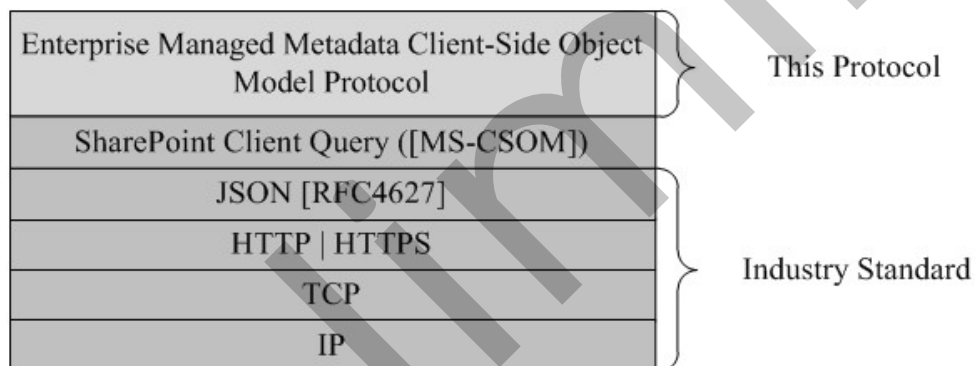


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a term store on a **site (2)** that is identified by a **Uniform Resource Locator (URL)** that is known by protocol clients. This protocol assumes that authentication has been performed by underlying protocols. This protocol specifies properties, methods, and types used to access a store of structured metadata as described in [\[MS-EMMWCF\]](#) and [\[MS-EMMSTORE\]](#).

1.6 Applicability Statement

This protocol can be used by a protocol client to manage enterprise metadata on a protocol server. This 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. This protocol is not suitable and is inefficient if both the protocol client and protocol server are on the same computer. In this case, the client should use an API that does not require communication over a network.

1.7 Versioning and Capability Negotiation

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

1.8 Vendor-Extensible Fields

A protocol server can provide additional properties and methods beyond those specified in this document to provide extended collaboration server functionality; however, because no means are provided for a protocol client to discover that extended functionality, the functionality will be 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.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

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

2.2 Message Syntax

Preliminary

3 Protocol Details

3.1 Server Details

3.1.1 Abstract Data Model

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)
Microsoft.SharePoint.Client.Taxonomy.ChangeItem (section 3.1.5.2)	Microsoft.SharePoint.Client.Taxonomy.ChangedGroup (section 3.1.5.1) Microsoft.SharePoint.Client.Taxonomy.ChangedSite (section 3.1.5.6) Microsoft.SharePoint.Client.Taxonomy.ChangedTerm (section 3.1.5.7) Microsoft.SharePoint.Client.Taxonomy.ChangedTermSet (section 3.1.5.8) Microsoft.SharePoint.Client.Taxonomy.ChangedTermStore (section 3.1.5.9)
Microsoft.SharePoint.Client.Taxonomy.TermSetItem (section 3.1.5.22)	Microsoft.SharePoint.Client.Taxonomy.Term (section 3.1.5.16) Microsoft.SharePoint.Client.Taxonomy.TermSet (section 3.1.5.20)
Microsoft.SharePoint.Client.Taxonomy.TaxonomyItem (section 3.1.5.14)	Microsoft.SharePoint.Client.Taxonomy.TermGroup (section 3.1.5.18) Microsoft.SharePoint.Client.Taxonomy.TermSetItem (section 3.1.5.22)

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

None.

3.1.5 Message Processing Events and Sequencing Rules

3.1.5.1 Microsoft.SharePoint.Client.Taxonomy.ChangedGroup

TypeId: {D294C9CA-4667-44E4-8C6E-3EB510BAA358}

ShortName: SP.Taxonomy.ChangedGroup

Represents a change to a **TermGroup** (section [3.1.5.18](#)) object.

3.1.5.1.1 Properties

3.1.5.1.1.1 Scalar Properties

3.1.5.1.1.1.1 ChangedBy

Type: CSOM String

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedBy**, as specified in section [3.1.5.2.1.1.1](#).

3.1.5.1.1.1.2 ChangedTime

Type: CSOM DateTime

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedTime**, as specified in section [3.1.5.2.1.1.2](#).

3.1.5.1.1.1.3 Id

Type: CSOM GUID

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Id** section [3.1.5.2.1.1.3](#).

3.1.5.1.1.1.4 ItemType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ItemType** section [3.1.5.2.1.1.4](#).

3.1.5.1.1.1.5 Operation

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Operation** section [3.1.5.2.1.1.5](#).

3.1.5.1.1.2 ObjectPath Properties

None.

3.1.5.1.2 Methods

3.1.5.1.2.1 Scalar Methods

None.

3.1.5.1.2.2 ObjectPath Methods

None.

3.1.5.2 Microsoft.SharePoint.Client.Taxonomy.ChangedItem

TypeId: {78C8F4D6-FC4F-46D4-8D00-7BB050DD7059}

ShortName: SP.Taxonomy.ChangedItem

Represents one change to an item in the **TermStore** (section [3.1.5.23](#)).

3.1.5.2.1 Properties

3.1.5.2.1.1 Scalar Properties

3.1.5.2.1.1.1 ChangedBy

Type: CSOM String

Accessibility: Read Only

Reserved for future use.

3.1.5.2.1.1.2 ChangedTime

Type: CSOM DateTime

Accessibility: Read Only

Gets the **Coordinated Universal Time (UTC)** time when the change happened.

3.1.5.2.1.1.3 Id

Type: CSOM GUID

Accessibility: Read Only

Gets the identifier of the changed object.

Remarks:

This property does not have a value when the change is global. For example, when the default language is changed in a **TermStore** (section [3.1.5.23](#)) object, or when the changed object does not have an identifier, this property does not have a value.

3.1.5.2.1.1.4 ItemType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

Accessibility: Read Only

Gets the type, as specified by **ChangedItemType** (section [3.1.5.4](#)), of the changed object.

3.1.5.2.1.1.5 Operation

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

Accessibility: Read Only

Gets the type of change that occurred as specified by **ChangedOperationType** (section [3.1.5.5](#)); for example, add, edit, or delete.

3.1.5.2.1.2 ObjectPath Properties

None.

3.1.5.2.2 Methods

3.1.5.2.2.1 Scalar Methods

None.

3.1.5.2.2.2 ObjectPath Methods

None.

3.1.5.3 Microsoft.SharePoint.Client.Taxonomy.ChangedItemCollection

TypeId: {2D685E53-7F47-4A60-82F6-22C92177BE4E}

ShortName: SP.Taxonomy.ChangedItemCollection

A collection of **ChangedItem** (section [3.1.5.2](#)) objects.

3.1.5.3.1 Properties

3.1.5.3.1.1 Scalar Properties

None.

3.1.5.3.1.2 ObjectPath Properties

None.

3.1.5.3.2 Methods

3.1.5.3.2.1 Scalar Methods

None.

3.1.5.3.2.2 ObjectPath Methods

None.

3.1.5.4 Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

ShortName: SP.Taxonomy.ChangedItemType

Flag: false

Represents the type of changed object.

3.1.5.4.1 Field Values

3.1.5.4.1.1 Unknown

Value: 0

The change is not valid.

3.1.5.4.1.2 Term

Value: 1

Represents a **Term** (section [3.1.5.16](#)) object.

3.1.5.4.1.3 TermSet

Value: 2

Represents a **TermSet** (section [3.1.5.20](#)) object.

3.1.5.4.1.4 Group

Value: 3

Represents a **TermGroup** (section [3.1.5.18](#)) object.

3.1.5.4.1.5 TermStore

Value: 4

Represents a **TermStore** (section [3.1.5.23](#)) object. The change indicated is a global change, such as the set of available languages that have been changed.

3.1.5.4.1.6 Site

Value: 5

Represents a reused term on a site (2).

3.1.5.5 Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

ShortName: SP.Taxonomy.ChangedOperationType

Flag: false

Indicates the type of operation that caused a change.

3.1.5.5.1 Field Values

3.1.5.5.1.1 Unknown

Value: 0

Represents an invalid operation.

3.1.5.5.1.2 Add

Value: 1

Represents the add operation.

3.1.5.5.1.3 Edit

Value: 2

Represents the edit operation.

3.1.5.5.1.4 DeleteObject

Value: 3

Represents the delete operation.

3.1.5.5.1.5 Move

Value: 4

Represents the move operation.

3.1.5.5.1.6 Copy

Value: 5

Represents the copy operation.

3.1.5.5.1.7 PathChange

Value: 6

Represents the path change operation.

3.1.5.5.1.8 Merge

Value: 7

Represents the merge operation.

3.1.5.5.1.9 ImportObject

Value: 8

Represents the import operation.

3.1.5.5.1.10 Restore

Value: 9

Represents the restore operation.

3.1.5.6 Microsoft.SharePoint.Client.Taxonomy.ChangedSite

TypeId: {FAB02250-F233-461F-812E-EE265E246459}

ShortName: SP.Taxonomy.ChangedSite

Represents an event that changed something in the hidden list.

3.1.5.6.1 Properties

3.1.5.6.1.1 Scalar Properties

3.1.5.6.1.1.1 ChangedBy

Type: CSOM String

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedBy**, as specified in section [3.1.5.2.1.1.1](#).

3.1.5.6.1.1.2 ChangedTime

Type: CSOM DateTime

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedTime**, as specified in section [3.1.5.2.1.1.2](#).

3.1.5.6.1.1.3 Id

Type: CSOM GUID

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Id** section [3.1.5.2.1.1.3](#).

3.1.5.6.1.1.4 ItemType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ItemType** section [3.1.5.2.1.1.4](#).

3.1.5.6.1.1.5 Operation

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Operation** section [3.1.5.2.1.1.5](#).

3.1.5.6.1.1.6 SiteId

Type: CSOM GUID

Accessibility: Read Only

Gets the site (2) identifier.

3.1.5.6.1.1.7 TermId

Type: CSOM GUID

Accessibility: Read Only

Gets the **Term** (section [3.1.5.16](#)) identifier.

3.1.5.6.1.1.8 TermSetId

Type: CSOM GUID

Accessibility: Read Only

Gets the **TermSet** (section [3.1.5.20](#)) identifier.

3.1.5.6.1.2 ObjectPath Properties

None.

3.1.5.6.2 Methods

3.1.5.6.2.1 Scalar Methods

None.

3.1.5.6.2.2 ObjectPath Methods

None.

3.1.5.7 Microsoft.SharePoint.Client.Taxonomy.ChangedTerm

TypeId: {08A04A9A-C4CE-46D4-A2C3-5C369BC69780}

ShortName: SP.Taxonomy.ChangedTerm

Indicates a change that happened to a **Term** (section [3.1.5.16](#)) object.

3.1.5.7.1 Properties

3.1.5.7.1.1 Scalar Properties

3.1.5.7.1.1.1 ChangedBy

Type: CSOM String

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedBy**, as specified in section [3.1.5.2.1.1.1](#).

3.1.5.7.1.1.2 ChangedTime

Type: CSOM DateTime

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedTime**, as specified in section [3.1.5.2.1.1.2](#).

3.1.5.7.1.1.3 GroupId

Type: CSOM GUID

Accessibility: Read Only

Gets the identifier of the **TermGroup** (section [3.1.5.18](#)) object to which the **Term** (section [3.1.5.4](#)) object belongs.

3.1.5.7.1.1.4 Id

Type: CSOM GUID

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Id** section [3.1.5.2.1.1.3](#).

3.1.5.7.1.1.5 ItemType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ItemType** section [3.1.5.2.1.1.4](#).

3.1.5.7.1.1.6 Operation

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Operation** section [3.1.5.2.1.1.5](#).

3.1.5.7.1.1.7 TermSetId

Type: CSOM GUID

Accessibility: Read Only

Gets the identifier of the **TermSet** (section [3.1.5.20](#)) object to which the **Term** (section [3.1.5.16](#)) object belongs.

3.1.5.7.1.1.8 ChangedCustomProperties

Type: System.Collections.Generic.IEnumerable<System.String>

Accessibility: Read Only

Specifies a collection of names of custom properties that have been changed.

3.1.5.7.1.1.9 ChangedLocalCustomProperties

Type: System.Collections.Generic.IEnumerable<System.String>

Accessibility: Read Only

Specifies a collection of names of local custom properties that have been changed.

3.1.5.7.1.1.10 LCIDsForChangedDescriptions

Type: System.Collections.Generic.IEnumerable<System.Int32>

Accessibility: Read Only

Specifies **language code identifiers (LCIDs)** in which descriptions have changed.

3.1.5.7.1.1.11 LCIDsForChangedLables

Type: System.Collections.Generic.IEnumerable<System.Int32>

Accessibility: Read Only

Specifies language code identifiers (LCIDs) in which labels have changed.

3.1.5.7.1.2 ObjectPath Properties

None.

3.1.5.7.2 Methods

3.1.5.7.2.1 Scalar Methods

None.

3.1.5.7.2.2 ObjectPath Methods

None.

3.1.5.8 Microsoft.SharePoint.Client.Taxonomy.ChangedTermSet

TypeId: {5E776E93-0414-44A7-9A54-A00C594ED47C}

ShortName: SP.Taxonomy.ChangedTermSet

Indicates a change that happened to a **TermSet** (section [3.1.5.20](#)) object.

3.1.5.8.1 Properties

3.1.5.8.1.1 Scalar Properties

3.1.5.8.1.1.1 ChangedBy

Type: CSOM String

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedBy**, as specified in section [3.1.5.2.1.1.1](#).

3.1.5.8.1.1.2 ChangedTime

Type: CSOM DateTime

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedTime**, as specified in section [3.1.5.2.1.1.2](#).

3.1.5.8.1.1.3 FromGroupId

Type: CSOM GUID

Accessibility: Read Only

Gets the identifier of the **TermGroup** (section [3.1.5.18](#)) object from which a **TermSet** (section [3.1.5.20](#)) object is moved.

3.1.5.8.1.1.4 GroupId

Type: CSOM GUID

Accessibility: Read Only

Gets the identifier of the **TermGroup** (section [3.1.5.18](#)) object to which the changed **TermSet** (section [3.1.5.20](#)) object belongs.

3.1.5.8.1.1.5 Id

Type: CSOM GUID

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Id** section [3.1.5.2.1.1.3](#).

3.1.5.8.1.1.6 ItemType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ItemType** section [3.1.5.2.1.1.4](#).

3.1.5.8.1.1.7 Operation

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Operation** section [3.1.5.2.1.1.5](#).

3.1.5.8.1.2 ObjectPath Properties

None.

3.1.5.8.2 Methods

3.1.5.8.2.1 Scalar Methods

None.

3.1.5.8.2.2 ObjectPath Methods

None.

3.1.5.9 Microsoft.SharePoint.Client.Taxonomy.ChangedTermStore

TypeId: {DB44A214-C48A-4607-8C77-4AC9EE96C263}

ShortName: SP.Taxonomy.ChangedTermStore

Indicates a change that happened to a **TermStore** (section [3.1.5.23](#)) object.

3.1.5.9.1 Properties

3.1.5.9.1.1 Scalar Properties

3.1.5.9.1.1.1 ChangedBy

Type: CSOM String

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedBy**, as specified in section [3.1.5.2.1.1.1](#).

3.1.5.9.1.1.2 ChangedLanguage

Type: CSOM Int32

Accessibility: Read Only

Gets an integer that represents the changed language.

3.1.5.9.1.1.3 ChangedTime

Type: CSOM DateTime

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ChangedTime**, as specified in section [3.1.5.2.1.1.2](#).

3.1.5.9.1.1.4 Id

Type: CSOM GUID

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Id** section [3.1.5.2.1.1.3](#).

3.1.5.9.1.1.5 IsDefaultLanguageChanged

Type: CSOM Boolean

Accessibility: Read Only

Gets a **Boolean** value that indicates whether this change changed the default language of the **TermStore** (section [3.1.5.23](#)) object.

3.1.5.9.1.1.6 IsFullFarmRestore

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that indicates whether the **TermStore** (section [3.1.5.23](#)) change is a full farm restore.

3.1.5.9.1.1.7 ItemType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.ItemType** section [3.1.5.2.1.1.4](#).

3.1.5.9.1.1.8 Operation

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

Accessibility: Read Only

See **Microsoft.SharePoint.Client.Taxonomy.ChangedItem.Operation** section [3.1.5.2.1.1.5](#).

3.1.5.9.1.2 ObjectPath Properties

None.

3.1.5.9.2 Methods

3.1.5.9.2.1 Scalar Methods

None.

3.1.5.9.2.2 ObjectPath Methods

None.

3.1.5.10 Microsoft.SharePoint.Client.Taxonomy.Label

TypeId: {81503AE1-8747-4684-A172-163C7E009EF9}

ShortName: SP.Taxonomy.Label

Represents the name of a **Term** (section [3.1.5.16](#)) object in a specific language.

A term can have one or more labels in the default language, and zero or more labels in the non-default language. If the term has labels in a language, one of the labels MUST be the default label.

3.1.5.10.1 Properties

3.1.5.10.1.1 Scalar Properties

3.1.5.10.1.1.1 IsDefaultForLanguage

Type: CSOM Boolean

Accessibility: Read Only

Indicates whether this **Label** (section [3.1.5.10](#)) object is the default label for the language.

3.1.5.10.1.1.2 Language

Type: CSOM Int32

Accessibility: Read/Write

Indicates the locale of the current **Label** (section [3.1.5.10](#)) object.

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	The language of a default Label (section 3.1.5.10) cannot be changed.
	ArgumentOutOfRangeException	The language is not a valid language or is not one of the working languages for the current TermStore (section 3.1.5.23).

3.1.5.10.1.1.3 Value

Type: CSOM String

Accessibility: Read/Write

Gets or sets the value of the current **Label** (section [3.1.5.10](#)) object.

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	ArgumentException	The value is not valid for a Term (section 3.1.5.16) label. The Label cannot have more than 255 characters, and cannot contain any invalid characters including: semicolon, double quote, left angle bracket, right angle bracket, ampersand, pipe, and tab.

3.1.5.10.1.2 ObjectPath Properties

3.1.5.10.1.2.1 Term

Type: Microsoft.SharePoint.Client.Taxonomy.Term

Accessibility: Read Only

Returns the **Term** (section [3.1.5.16](#)) object that the current **Label** (section [3.1.5.10](#)) object is associated with.

3.1.5.10.2 Methods

3.1.5.10.2.1 Scalar Methods

3.1.5.10.2.1.1 DeleteObject

Return Type: None

Deletes the current **Label** (section [3.1.5.10](#)) object.

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save the deletion to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	The default label for a Term (section 3.1.5.16) object in the default language cannot be deleted. Deleting the last Label of a Term is not allowed. Delete the Term instead.

Parameters: None

3.1.5.10.2.1.2 SetAsDefaultForLanguage

Return Type: None

Sets the current **Label** section ([3.1.5.10](#)) object as the default label for its language.

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.

Parameters: None

3.1.5.10.2.2 ObjectPath Methods

None.

3.1.5.11 Microsoft.SharePoint.Client.Taxonomy.LabelCollection

TypeId: {1849DC80-6AED-4ACC-A38F-18CAF1D7A216}

ShortName: SP.Taxonomy.LabelCollection

Represents a collection of **Label** (section [3.1.5.10](#)) objects.

3.1.5.11.1 Properties

3.1.5.11.1.1 Scalar Properties

None.

3.1.5.11.1.2 ObjectPath Properties

None.

3.1.5.11.2 Methods

3.1.5.11.2.1 Scalar Methods

None.

3.1.5.11.2.2 ObjectPath Methods

3.1.5.11.2.2.1 GetByValue

Return Type: Microsoft.SharePoint.Client.Taxonomy.Label

Gets a **Label** (section [3.1.5.10](#)) object by **value** (section [3.1.5.10.1.1.3](#)).

Parameters:

index: The value of the **Label** (section [3.1.5.10](#)) object to retrieve.

Type: CSOM String

3.1.5.12 Microsoft.SharePoint.Client.Taxonomy.StringMatchOption

ShortName: SP.Taxonomy.StringMatchOption

Flag: false

Indicates what type of string matching to be performed when comparing strings.

3.1.5.12.1 Field Values

3.1.5.12.1.1 StartsWith

Value: 0

Indicates that the string that is being matched MUST start with the specified value.

3.1.5.12.1.2 ExactMatch

Value: 1

Indicates that the string that is being matched MUST match exactly all of the characters in the specified value.

3.1.5.13 Microsoft.SharePoint.Client.Taxonomy.TaxonomyFieldValue

TypeId: {19E70ED0-4177-456B-8156-015E4D163FF8}

ShortName: SP.Taxonomy.TaxonomyFieldValue

Represents a single value held in a **TaxonomyField** (section [3.1.5.27](#)) object.

3.1.5.13.1 Properties

3.1.5.13.1.1 Scalar Properties

3.1.5.13.1.1.1 Label

Type: CSOM String

Accessibility: Read/Write

Specifies the label of the **TaxonomyField** (section [3.1.5.27](#)) object.

3.1.5.13.1.1.2 TermGuid

Type: CSOM String

Accessibility: Read/Write

Specifies a string representing **Term** (section [3.1.5.16](#)) GUID.

Remarks:

If an invalid internal identifier was specified when the **TaxonomyFieldValue** object was constructed, this property will return an empty string.

Exceptions:

Error Code	Error Type Name	Condition
	MemberAccessException	The GUID of the Term (section 3.1.5.16) was not specified when the TaxonomyFieldValue (section 3.1.5.13) object was constructed and the TaxonomyFieldValue object is not bound to a field (2) .

3.1.5.13.1.1.3 ValidatedString

Type: CSOM String

Accessibility: Read Only

Gets a validated, serialized string representation of the **TaxonomyFieldValue** (section [3.1.5.13](#)) object.

Exceptions:

Error Code	Error Type Name	Condition
	MemberAccessException	The TaxonomyFieldValue instance is not bound to a field (2).

3.1.5.13.1.1.4 WssId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the list item identifier of the list item containing the **TaxonomyFieldValue** that is encapsulated by the **TaxonomyFieldValue** (section [3.1.5.13](#)) object.

3.1.5.13.1.2 ObjectPath Properties

None.

3.1.5.14 Microsoft.SharePoint.Client.Taxonomy.TaxonomyItem

TypeId: {5F6011B8-FAE0-4784-8882-85765261D951}

ShortName: SP.Taxonomy.TaxonomyItem

The **TaxonomyItem** class is a base class that represents an item in the **TermStore** (section [3.1.5.23](#)).

A **TaxonomyItem** has a name and a unique identifier. It also contains date and time of when the item is created and when the item is last modified.

3.1.5.14.1 Properties

3.1.5.14.1.1 Scalar Properties

3.1.5.14.1.1.1 CreatedDate

Type: CSOM DateTime

Accessibility: Read Only

Gets the date and time when this item was created.

3.1.5.14.1.1.2 Id

Type: CSOM GUID

Accessibility: Read Only

Gets the identifier of the current **TaxonomyItem** (section [3.1.5.14](#)).

3.1.5.14.1.1.3 LastModifiedDate

Type: CSOM DateTime

Accessibility: Read Only

Gets the date and time when this item was most recently updated.

3.1.5.14.1.1.4 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the current **TaxonomyItem** (section [3.1.5.14](#)) object.

3.1.5.14.1.2 ObjectPath Properties

3.1.5.14.1.2.1 TermStore

Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Accessibility: Read Only

Gets the **TermStore** (section [3.1.5.23](#)) object from which the current **TaxonomyItem** (section [3.1.5.14](#)) was retrieved.

3.1.5.14.2 Methods

3.1.5.14.2.1 Scalar Methods

3.1.5.14.2.1.1 DeleteObject

Return Type: None

Deletes the current **TaxonomyItem** (section [3.1.5.14](#)) object.

Parameters: None

3.1.5.14.2.1.2 NormalizeName

This method is a static CSOM method.

Return Type: CSOM String

Normalizes a name of a **TaxonomyItem** (section [3.1.5.14](#)) object.

Parameters:

name: The name that the **NormalizeName** normalizes.

Type: CSOM String

Remarks:

The name is normalized to trim consecutive spaces into one space and replace the ampersand (&) character with the wide character version of the character:"(\uFF06)".

3.1.5.14.2.2 ObjectPath Methods

None.

3.1.5.15 Microsoft.SharePoint.Client.Taxonomy.TaxonomySession

TypeId: {981CBC68-9EDC-4F8D-872F-71146FCBB84F}

ShortName: SP.Taxonomy.TaxonomySession

The container for all of the associated **TermStore** (section [3.1.5.23](#)) objects for a **site collection**.

3.1.5.15.1 Properties

3.1.5.15.1.1 Scalar Properties

3.1.5.15.1.1.1 OfflineTermStoreNames

Type: CSOM Array

Accessibility: Read Only

Gets a **StringCollection** of names of **TermStore** (section [3.1.5.23](#)) objects that are currently offline.

3.1.5.15.1.2 ObjectPath Properties

3.1.5.15.1.2.1 DefaultKeywordsTermStore

Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Accessibility: Read Only

Gets the **TermStore** (section [3.1.5.23](#)) object to be used for keywords.

Remarks:

The **DefaultKeywordsTermStore** property is specified on the metadata application proxy connection. If multiple proxies associated with a **Web application (1)** in a site (2) are marked as the default keywords **TermStore** (section [3.1.5.23](#)), then the server MUST return NULL because only a single default keywords **TermStore** (section [3.1.5.23](#)) can exist. If no **TermStore** (section [3.1.5.23](#)) has been selected as the default, then the server MUST return **null**.

3.1.5.15.1.2.2 DefaultSiteCollectionTermStore

Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Accessibility: Read Only

Gets the **TermStore** (section [3.1.5.23](#)) object to be used for metadata that are specific to the site collection, such as column-specific **TermSet** (section [3.1.5.20](#)) objects.

Remarks:

The **DefaultSiteCollectionTermStore** property is specified on the metadata application proxy connection. If multiple proxies associated with a Web application (1) in a site (2) are marked as the default keywords **TermStore** (section [3.1.5.23](#)), then the server MUST return NULL because only a single default keywords **TermStore** (section [3.1.5.23](#)) can exist.

3.1.5.15.1.2.3 TermStores

Type: Microsoft.SharePoint.Client.Taxonomy.TermStoreCollection

Accessibility: Read Only

A collection of **TermStore** (section [3.1.5.23](#)) objects that are associated with a Web application (1) of the current site collection.

3.1.5.15.2 Methods

3.1.5.15.2.1 Scalar Methods

None.

3.1.5.15.2.2 ObjectPath Methods

3.1.5.15.2.2.1 GetTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Gets a **Term** (section [3.1.5.16](#)) object that is based on the **Id** (section [3.1.5.16.1.1.4](#)) property. If the current **Term** belongs to multiple **TermSet** (section [3.1.5.20](#)) objects, it will arbitrarily return the **Term** from one of the **TermSet** objects.

Remarks:

If the current **Term** (section [3.1.5.16](#)) is part of multiple **TermSet** (section [3.1.5.20](#)) objects, the server returns an arbitrary **Term** object from one of the **TermSet** objects. The server MUST return **null** if the **Term** cannot be found or if the user does not have sufficient permissions to access it.

Parameters:

termId: The **Id** (section [3.1.5.16.1.1.4](#)) property of the **Term** (section [3.1.5.16](#)) to get.

Type: CSOM GUID

Remarks:

3.1.5.15.2.2.2 GetTerms

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Gets **Term** (section [3.1.5.16](#)) objects from all **TermSet** (section [3.1.5.20](#)), objects which are not scoped to a site (2), from all **TermStore** (section [3.1.5.23](#)) objects with a **Label** (section [3.1.5.10](#)) matching the string provided.

Parameters:

termLabel: The string that the **GetTerms** property searches.

Type: CSOM String

trimUnavailable: This parameter is "yes" if the method trims away the unavailable **Term** (section [3.1.5.16](#)) objects from the result collection, and "no" if it includes the unavailable **Term** objects in the result collection.

Type: CSOM Boolean

3.1.5.15.2.2.3 GetTermSets

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermSetCollection

Gets all **TermSet** (section [3.1.5.20](#)) objects from all **TermStore** (section [3.1.5.23](#)) objects that have a name in the specified language.

Parameters:

termSetName: The name of the **TermSet** (section [3.1.5.20](#)) object.

Type: CSOM String

lcid: The language code identifier (LCID) of the language.

Type: CSOM Int32

3.1.5.15.2.2.4 GetTermsWithCustomProperty

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Gets **Term** (section [3.1.5.16](#)) objects from all **TermStore** (section [3.1.5.23](#)) objects that have a property with the provided property name.

Parameters:

customPropertyName: Property name.

Type: CSOM String

trimUnavailable: This parameter is "yes" if the method trims away the unavailable **Term** (section [3.1.5.16](#)) objects from the result collection; "no" if it includes the unavailable **Term** objects in the result collection.

Type: CSOM Boolean

3.1.5.15.2.2.5 GetTermsInDefaultLanguage

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Searches **Label** (section [3.1.5.10](#)) objects in the **TermStore** (section [3.1.5.23](#)) default language, and returns **Term** (section [3.1.5.16](#)) objects from all **TermSet** (section [3.1.5.20](#)) objects, which are not scoped to a site (2), from all **TermStore** objects with a **Label** matching the provided string.

Parameters:

termLabel: The string that is searched by the **GetTermsInDefaultLanguage** property..

Type: CSOM String

defaultLabelOnly: Set to "yes" if the method only searches default **Label** (section [3.1.5.10](#)) objects. "no" if it searches all **Label** objects.

Type: CSOM Boolean

stringMatchOption: How the string is matched as specified by **StringMatchOption** (section [3.1.5.12](#)).

Type: Microsoft.SharePoint.Client.Taxonomy.StringMatchOption

resultCollectionSize: The maximum number of **Term** (section [3.1.5.16](#)) objects to return from each **TermStore** object.

Type: CSOM Int32

trimUnavailable: "yes" if it trims away the unavailable **Term** (section [3.1.5.16](#)) objects from the result collection; "no" if it includes the unavailable **Term** objects in the result collection.

Type: CSOM Boolean

trimDeprecated: "yes" if it trims away the deprecated **Term** (section [3.1.5.16](#)) objects from the result collection; "no" if it includes the deprecated **Term** objects in the result collection.

Type: CSOM Boolean

3.1.5.15.2.2.6 GetTermsInWorkingLocale

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Searches **Label** (section [3.1.5.10](#)) objects in the **TermStore** (section [3.1.5.23](#)) working language, and returns **Term** (section [3.1.5.16](#)) objects from all **TermSet** objects, which are not scoped to a site (2), from all **TermStore** objects with a **Label** matching the provided string.

Parameters:

termLabel: The string that the **GetTermsinWorkingLocale** searches.

Type: CSOM String

defaultLabelOnly: This parameter is "yes" if the method only searches default **Label** (section [3.1.5.10](#)) objects; "no" if it searches all **Label** objects.

Type: CSOM Boolean

stringMatchOption: How the string is matched as specified by **StringMatchOption** (section [3.1.5.12](#)).

Type: Microsoft.SharePoint.Client.Taxonomy.StringMatchOption

resultCollectionSize: The maximum number of **Term** (section [3.1.5.16](#)) objects to return from each **TermStore** (section [3.1.5.23](#)).

Type: CSOM Int32

trimUnavailable: "yes" if it trims away the unavailable **Term** (section [3.1.5.16](#)) objects from the result collection; "no" if it includes the unavailable **Term** objects in the result collection.

Type: CSOM Boolean

trimDeprecated: "yes" if it trims away the deprecated **Term** (section [3.1.5.16](#)) objects from the result collection; "no" if it includes the deprecated **Term** objects in the result collection.

Type: CSOM Boolean

3.1.5.15.2.2.7 CSOM Constructor

Creates a **TaxonomySession** (section [3.1.5.15](#)) object that is scoped to a specific site collection.

Parameters:

site: A site collection object.

Type: Microsoft.SharePoint.Client.Site

updateCache: Indicates whether a cache update should happen when modifications are made with the **CommitAll** (section [3.1.5.23.2.1.1](#)) method.

Type: CSOM Boolean

3.1.5.16 Microsoft.SharePoint.Client.Taxonomy.Term

TypeId: {5B8C81B7-7CD2-40DC-8525-5ECA12A4EB73}

ShortName: SP.Taxonomy.Term

Represents a term or a keyword in a managed metadata hierarchy.

Remarks:

A **Term** is stored as a **TermSetItem** (section [3.1.5.22](#)) object in the **TermStore** (section [3.1.5.23](#)) object. It contains references to the parts that define a **TermSetItem**.

A **Term** can be reused under different parent objects. It can have custom properties associated with it. It can have multiple **Label** (section [3.1.5.10](#)) objects associated with it for different language code identifiers (LCIDs).

When the **IsKeyword** (section [3.1.5.16.1.1.7](#)) property is set to **true**, the **Term** represents a keyword. A keyword does not have any child objects and is stored in keyword **TermSet** (section [3.1.5.20](#)).

Initialize a new instance of this class by using the **CreateTerm** (section [3.1.5.16.2.2.3](#)) method, the static **GetTerm** (section [3.1.5.20.2.2.5](#)) method, or by getting it from a **TermCollection** (section [3.1.5.17](#)) object.

3.1.5.16.1 Properties

3.1.5.16.1.1 Scalar Properties

3.1.5.16.1.1.1 CreatedDate

Type: CSOM DateTime

Accessibility: Read Only

Gets the date and time when this item was created.

3.1.5.16.1.1.2 CustomProperties

Type: CSOM dictionary

Accessibility: Read Only

Gets the collection of custom property objects from the read-only dictionary of the **Term** (section [3.1.5.16](#)) object.

3.1.5.16.1.1.3 CustomSortOrder

Type: CSOM String

Accessibility: Read/Write

Specifies the custom sort order of the current **Term** (section [3.1.5.16](#)) object.

The return value is a string that is composed of the child **Term** GUIDs and separated by a semicolon (;). When the custom sort order is **null** or empty, the child **Term** objects of the current **Term** are sorted alphabetically based on the language of the current **TermStore** (section [3.1.5.23](#)) object.

Remarks:

If the custom sort-order value contains an invalid GUID, or if one of the GUIDs does not belong to its child **Term** objects, then it is ignored. If any GUID that belongs to a child **Term** is not included, then it will be sorted alphabetically following the **Term** objects with custom sort order.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20) object. The operation failed.

3.1.5.16.1.1.4 Id

Type: CSOM GUID

Accessibility: Read Only

Gets the identifier of the current **TaxonomyItem** (section [3.1.5.14](#)).

3.1.5.16.1.1.5 IsAvailableForTagging

Type: CSOM Boolean

Accessibility: Read/Write

Specifies the flag indicating whether a **Term** (section [3.1.5.16](#)) object can be used to tag in the tagging UI, but does not affect its visibility.

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20) object. The operation failed.

3.1.5.16.1.1.6 IsDeprecated

Type: CSOM Boolean

Accessibility: Read Only

Gets information about whether the current **Term** (section [3.1.5.16](#)) object has been deprecated.

3.1.5.16.1.1.7 IsKeyword

Type: CSOM Boolean

Accessibility: Read Only

Gets information about whether the current **Term** object is a keyword in the keyword **TermSet** (section [3.1.5.20](#)).

3.1.5.16.1.1.8 IsReused

Type: CSOM Boolean

Accessibility: Read Only

Gets information about whether the current **Term** (section [3.1.5.16](#)) object is a reused term.

Remarks:

If the current **Term** is reused, there is at least one member in the **ReusedTerms** (section [3.1.5.16.1.2.3](#)) collection. Use the **SourceTerm** (section [3.1.5.16.1.2.4](#)) property to find out if the current **Term** is the source **Term** for reuse.

3.1.5.16.1.1.9 IsRoot

Type: CSOM Boolean

Accessibility: Read Only

Gets information about whether the current **Term** (section [3.1.5.16](#)) object is at the root of the **TermSet** (section [3.1.5.20](#)) object.

Returns **true** if the current **Term** is at the root of **TermSet**; otherwise **false**.

3.1.5.16.1.1.10 IsSourceTerm

Type: CSOM Boolean

Accessibility: Read Only

Gets information about whether the current **Term** (section [3.1.5.16](#)) is the source **Term** among reused terms.

Remarks:

If the **IsReused** (section [3.1.5.16.1.1.8](#)) property is **false**, the current **Term** is not reused and this property will always return **true**. If the current **Term** is reused, then this property returns **true** if the current **Term** is also the source **Term**.

3.1.5.16.1.1.11 LastModifiedDate

Type: CSOM DateTime

Accessibility: Read Only

Gets the date and time when this item was most recently updated.

3.1.5.16.1.1.12 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the current **Term** (section [3.1.5.16](#)) object.

Remarks:

The name is the default **Label** (section [3.1.5.10](#)) of the working language, as specified by **WorkingLanguage** (section [3.1.5.23.1.1.6](#)) property, of the current **TermStore** (section [3.1.5.23](#)).

The **Name** value will be normalized to trim consecutive spaces into one and replace any "&" characters with the wide character version of the character ("\uFF06"). It MUST be non-empty, cannot exceed 255 characters, and cannot contain any of the following characters: ;, ", <, >, |, & , or the tab-character.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20) object. The operation failed.
	ArgumentException	The name is not valid because it either contains invalid characters or is too long.
	ArgumentNullException	The name is null or an empty string.

3.1.5.16.1.1.13 Owner

Type: CSOM String

Accessibility: Read/Write

Specifies the owner of the current **Term** (section [3.1.5.16](#)) object.

Remarks:

The **Owner** property MUST NOT be empty or **null**, and MUST be a valid name.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20) object. The operation failed.
	ArgumentException	The name is not valid because it either contains invalid characters or is too long.
	ArgumentNullException	The name is null or an empty string.

3.1.5.16.1.1.14 TermsCount

Type: CSOM Int32

Accessibility: Read Only

Gets the number of child **Term** (section [3.1.5.16](#)) objects.

Remarks:

A SQL database roundtrip is not needed to get this property value.

3.1.5.16.1.1.15 IsPinned

Type: CSOM Boolean

Accessibility: Read Only

Specifies whether this **Term** (section [3.1.5.16](#)) is pinned.

3.1.5.16.1.1.16 LocalCustomProperties

Type: CSOM dictionary

Accessibility: Read Only

Specifies the custom properties that have been overridden for this **Term** (section [3.1.5.16](#)).

3.1.5.16.1.1.17 MergedTermIds

Type: System.Collections.Generic.IEnumerable<System.Guid>

Accessibility: Read Only

Specifies a read-only collection of term identifiers. **Term** (section [3.1.5.16](#)) objects identified by the returned identifiers have been merged into the current **Term**.

3.1.5.16.1.1.18 Description

Type: CSOM String

Accessibility: Read Only

Specifies the description of the **Term** (section [3.1.5.16](#)) in the same language as **Name** (section [3.1.5.16.1.1.12](#)). If the **Term** does not have a description, an empty string is returned.

3.1.5.16.1.1.19 PathOfTerm

Type: CSOM String

Accessibility: Read Only

Gets the path for this **Term** (section [3.1.5.16](#)) in the **TermStore** (section [3.1.5.23](#)) default language.

3.1.5.16.1.1.20 IsPinnedRoot

Type: CSOM Boolean

Accessibility: Read Only

Indicates whether this term is pinned and is the root of the pinned tree.

3.1.5.16.1.2 ObjectPath Properties

3.1.5.16.1.2.1 Labels

Type: Microsoft.SharePoint.Client.Taxonomy.LabelCollection

Accessibility: Read Only

Specifies a collection of **Label** (section [3.1.5.10](#)) objects for the current **Term** (section [3.1.5.16](#)) object.

Remarks:

The collection of **Label** objects is returned for all working languages defined by the **Languages** (section [3.1.5.23.1.1.4](#)) property.

3.1.5.16.1.2.2 Parent

Type: Microsoft.SharePoint.Client.Taxonomy.Term

Accessibility: Read Only

Specifies the parent **Term** (section [3.1.5.16](#)) object of the current **Term**.

This value is **null** if the **Term** is the root **Term**, or if the protocol client does not have permissions to the parent **Term**.

Remarks:

This value is specific to the current **TermSet** (section [3.1.5.20](#)) object.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	A null value was passed as the Term .

3.1.5.16.1.2.3 ReusedTerms

Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Accessibility: Read Only

Specifies all of the instances of the current **Term** (section [3.1.5.16](#)) object that are reused in other **TermSet** (section [3.1.5.20](#)) objects.

Remarks:

The returned collection of **Term** objects does not include the current **Term**.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	A null value was passed as the Term .

3.1.5.16.1.2.4 SourceTerm

Type: Microsoft.SharePoint.Client.Taxonomy.Term

Accessibility: Read Only

Specifies the source **Term** (section [3.1.5.16](#)) object if the current **Term** is a reused term.

Remarks:

Returns **null** if the protocol client does not have permissions to access the source **Term**.

3.1.5.16.1.2.5 Terms

Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Accessibility: Read Only

Specifies a collection of all immediate child **Term** (section [3.1.5.16](#)) objects of the current **Term** object.

Remarks:

The returned collection of terms is sorted based on the custom sort order as specified by **CustomSortOrder** (section [3.1.5.16.1.1.3](#)). If no custom sort order is defined, then it is sorted by **Label** (section [3.1.5.10](#)) based on the alphabetical order that is determined by the **WorkingLanguage** (section [3.1.5.23.1.1.6](#)) object.

3.1.5.16.1.2.6 TermSet

Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Accessibility: Read Only

Specifies the **TermSet** (section [3.1.5.20](#)) object for the current **Term** (section [3.1.5.16](#)) object.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The TermSet of the Term is not valid.

3.1.5.16.1.2.7 TermSets

Type: Microsoft.SharePoint.Client.Taxonomy.TermSetCollection

Accessibility: Read Only

Specifies the collection of all **TermSet** (section [3.1.5.20](#)) objects where the current **Term** (section [3.1.5.16](#)) object is either stored or reused.

Remarks:

The returned collection includes the **TermSet** object where the current **Term** is stored, and all of the **TermSet** objects where the **Term** is reused.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	At least one of the TermSet objects where the Term is stored or reused is not valid.

3.1.5.16.1.2.8 TermStore

Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Accessibility: Read Only

Specifies the **TermStore** (section [3.1.5.23](#)) object from which the current **TaxonomyItem** (section [3.1.5.14](#)) was retrieved.

3.1.5.16.1.2.9 PinSourceTermSet

Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Accessibility: Read Only

Specifies the **TermSet** (section [3.1.5.20](#)) where the **Term** (section [3.1.5.16](#)) that this **Term** is pinned to exists. If this **Term** is not pinned, returns **null**.

3.1.5.16.2 Methods

3.1.5.16.2.1 Scalar Methods

3.1.5.16.2.1.1 DeleteCustomProperty

Return Type: None

Deletes a custom property from the current **Term** (section [3.1.5.16](#)) object.

Parameters:

name: The name of the custom property.

Type: CSOM String

Remarks:

The name MUST NOT be empty, exceed 255 characters, or contain any of the following characters: ;, ", <, >, |, &, or the tab-character.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	The operation is not valid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	ArgumentException	The custom property name is not valid, it contains characters that are not valid, or is too long.
	ArgumentNullException	The custom property name is null or an empty string.

3.1.5.16.2.1.2 DeleteObject

Return Type: None

Deletes this **Term** (section [3.1.5.16](#)) object and its child objects from the **TermStore** (section [3.1.5.23](#)) object.

Remarks:

Deleting a source **Term** while it is still reused elsewhere causes the source **Term** to be moved to the orphaned terms **TermSet** object, and the **Term** becomes an orphan. Orphaned **Term** objects cannot be directly deleted. When all reused **Term** objects are deleted, the orphan is also deleted.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	The operation is not valid in orphaned terms TermSet (section 3.1.5.20). The operation failed.

Parameters: None

3.1.5.16.2.1.3 Deprecate

Return Type: None

Deprecates or enables the current **Term** (section [3.1.5.16](#)) object.

Parameters:

doDeprecate: Indicates whether to deprecate or enable this **Term**.

Type: CSOM Boolean

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	The operation is not valid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.

3.1.5.16.2.1.4 GetDefaultLabel

Return Type: CSOM String

Specifies the default **Label** (section [3.1.5.10](#)) for this **Term** (section [3.1.5.16](#)) based on the language code identifier (LCID).

Parameters:

lcid: The LCID the default **Label** is associated with.

Type: CSOM Int32

Remarks:

Returns an empty string when there is no default **Label** for the given LCID.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentOutOfRangeException	The <i>lcid</i> is not valid.

3.1.5.16.2.1.5 GetDescription

Return Type: CSOM String

Specifies the description of the **Term** object in the language (**WorkingLanguage** (section [3.1.5.23.1.1.6](#))) of the current **TermStore** (section [3.1.5.23](#)) object.

Parameters:

lcid: The description of the language code identifier (LCID).

Type: CSOM Int32

Remarks:

Returns the description of the **Term** for the working language or the current **TermStore**, or an empty string if the **Term** has no description in that language.

3.1.5.16.2.1.6 GetPath

Return Type: CSOM String

Specifies the path for the current **Term** (section [3.1.5.16](#)) in the specified language code identifier (LCID).

Parameters:

lcid: The LCID for the default **Label** (section [3.1.5.10](#)) object

Type: CSOM Int32

Remarks:

The path is composed of the default **Label** objects of the ancestor **Term** objects separated by semicolons (;).

If the *lcid* does not specify a valid **TermStore** (section [3.1.5.23](#)) language, then the default language is used.

3.1.5.16.2.1.7 Move

Return Type: None

Moves the current **Term** (section [3.1.5.16](#)) object to be a child of a different **Term**.

Parameters:

newParent: The **Term** that becomes the new parent after the current **Term** object is moved after it.

Type: Microsoft.SharePoint.Client.Taxonomy.TermSetItem

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	ArgumentNullException	The new parent Term is null .
	ArgumentException	The new parent Term is not valid.
	TermStoreOperationException	The keyword TermSet (section 3.1.5.20) only allows a flat list of Term objects.
	TermStoreOperationException	Cannot move a Term to itself.
	TermStoreOperationException	Cannot move a Term to its descendent Term objects.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet . The operation failed.
	TermStoreOperationException	Cannot move a Term to a TermSet where other reused Term objects are not allowed.
	TermStoreOperationException	Cannot move a Term to a TermSet that has another reused instance of this Term .

3.1.5.16.2.1.8 ReassignSourceTerm

Return Type: None

Reassigns the source **Term** status to one of the other reused instances of this **Term** (section [3.1.5.16](#)) object.

Parameters:

reusedTerm: One of the **Term** objects from the **ReusedTerms** (section [3.1.5.16.1.2.3](#)) collection that becomes the new source term.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

Remarks:

This method is valid only if the current **Term** is the source **Term**. Use this method before attempting to delete a source **Term**.

If the source **Term** is in the orphaned terms **TermSet** and the operation succeeded, then the old source **Term** is removed from the orphaned terms **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	ArgumentNullException	The reused Term to become the new source is null or not valid.
	TermStoreOperationException	The current Term MUST be the source Term to reassign the current setting to another Term .
	TermStoreOperationException	The source Term cannot be reassigned to itself.
	ArgumentException	The <i>reusedTerm</i> parameter MUST be a member of the ReusedTerms collection for this Term .

3.1.5.16.2.1.9 SetCustomProperty

Return Type: None

Adds a new custom property or updates the value of an existing property.

Parameters:

name: The custom property name to set.

Type: CSOM String

value: The value to set for the specified custom property.

Type: CSOM String

Remarks:

This method tries to find the specified custom property name and set it with the specified value. The property names do not need to be the same case to match. If the custom property name does not exist, then a new property is created.

The name MUST be non-empty, cannot exceed 255 characters, and cannot contain any of the following characters: ;, ", <, >, |, &, or the tab-character.

The value cannot exceed 1000 characters.

The leading and trailing space of the custom property name and value will be trimmed.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.

Error Code	Error Type Name	Condition
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet . The operation failed.
	ArgumentException	The custom property name is not valid. It contains characters that are not valid or is too long.
	ArgumentNullException	The custom property name is null or an empty string.

3.1.5.16.2.1.10 SetDescription

Return Type: None

Sets the description specified by the language code identifier (LCID) of this **Term** (section [3.1.5.16](#)) object.

Parameters:

description: The new description specified by the LCID.

Type: CSOM String

lcid: The LCID to set description for.

Type: CSOM Int32

Remarks:

The description MUST NOT be empty, exceed 1000 characters, or contain the tab character.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet . The operation failed.
	ArgumentException	The custom property name is not valid. It contains characters that are not valid or is too long.
	ArgumentNullException	The custom property name is null or an empty string.

3.1.5.16.2.1.11 DeleteAllCustomProperties

Return Type: None

Deletes all shared custom properties for this **Term** (section [3.1.5.16](#)).

Parameters: None

3.1.5.16.2.1.12 DeleteAllLocalCustomProperties

Return Type: None

Deletes all local custom properties for this **Term** (section [3.1.5.16](#)).

Parameters: None

3.1.5.16.2.1.13 DeleteLocalCustomProperty

Return Type: None

Deletes a local custom property for this **Term** (section [3.1.5.16](#)).

Parameters:

name: Name of the property to be deleted.

Type: CSOM String

3.1.5.16.2.1.14 GetIsDescendantOf

Return Type: CSOM Boolean

Indicates whether the current **Term** (section [3.1.5.16](#)) object is a descendent **Term** of the specified **Term**.

Parameters:

ancestorTerm: The **Term** to verify is or is not an ancestor.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

Returns **true** if the **Term** is a descendent of the specified **Term**; otherwise **false**.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The Term to check is null .

3.1.5.16.2.1.15 NormalizeName

This method is a static CSOM method.

Return Type: CSOM String

Normalizes a name of a **TaxonomyItem** (section [3.1.5.14](#)) object.

Parameters:

name: The name to normalize

Type: CSOM String

3.1.5.16.2.1.16 SetLocalCustomProperty

Return Type: None

Adds a new local custom property if one with the same name does not already exist. If a local property with the same name already exists, this method updates that property with the value indicated in the *value* parameter.

Parameters:

name: Name of the property to be added or updated.

Type: CSOM String

value: Value of the property to be added or updated.

Type: CSOM String

3.1.5.16.2.2 ObjectPath Methods

3.1.5.16.2.2.1 Copy

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates and returns a sibling copy of the current **Term** (section [3.1.5.16](#)) object within the current **TermSet** (section [3.1.5.20](#)) object.

Parameters:

doCopyChildren: Indicates whether to copy this **Term** and all of its child terms.

Type: CSOM Boolean

Remarks:

The copied **Term** will have the same properties as the current **Term**, except for the **Name** (section [3.1.5.16.1.1.12](#)) property. If the **Term** is copied with its child **Term** objects, the newly-created child terms will have the same properties as the child terms of the current **Term**, including the **Name** property. The copied child terms will preserve the same hierarchy.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet . The operation failed.

3.1.5.16.2.2.2 CreateLabel

Return Type: Microsoft.SharePoint.Client.Taxonomy.Label

Creates a new **Label** (section [3.1.5.10](#)) for this **Term** (section [3.1.5.16](#)).

Parameters:

labelName: The new **Label** name.

Type: CSOM String

lcid: The language code identifier (LCID) to create the **Label** for.

Type: CSOM Int32

isDefault: Indicates whether this **Label** will be the default **Label** of the *lcid*.

Type: CSOM Boolean

Remarks:

The *labelName* value will be normalized to trim consecutive spaces into one and replace the "&" character with the wide character version of the character (\uFF06). It MUST NOT be empty, exceed 255 characters, or contain any of the following characters: ;, ", <, >, |, &, or the tab character.

The name of the **Label** object is not case-sensitive. If the name to be created is a non-default **Label**, it MUST NOT have the same name as any existing **Label** of the *lcid*. If it is a default **Label**, then it can have the same name as existing **Label**. Instead of creating a new **Label**, the existing **Label** will become the default **Label** for the *lcid*.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client does not have sufficient permissions to perform this operation.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	ArgumentException	The label name is not valid, it contains characters that are not valid, or is too long.
	ArgumentNullException	The label name is null or an empty string.
	ArgumentOutOfRangeException	The <i>lcid</i> is not valid.
	ArgumentException	The Label will be created as a non-default Label , and the name already exists for this <i>lcid</i> .

3.1.5.16.2.2.3 CreateTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new **Term** (section [3.1.5.16](#)) object under this **TaxonomyItem** (section [3.1.5.14](#)) object. The name is the default **Label** (section [3.1.5.10](#)) for the specified language code identifier (LCID).

Parameters:

name: Default label for the *lcid*.

Type: CSOM String

lcid: The LCID to create the **Label** for.

Type: CSOM Int32

newTermId: The GUID for the **Term**.

Type: CSOM GUID

Remarks:

If the specified LCID is not the default language of the **TermStore** (section [3.1.5.23](#)), a **Label** (section [3.1.5.10](#)) with the name and the default language of the **TermStore** will also be created to ensure the **Term** has a default **Label** for the default language of the **TermStore**.

If the current **TermSetItem** (section [3.1.5.22](#)) is the keyword **TermSet**, then the **Label** is always created for the **TermStore** default language.

The *Name* value will be normalized to trim consecutive spaces into one and replace the "&" character with the wide character version of the character (\uFF06). It MUST NOT be empty, exceed 255 characters, or contain any of the following characters: ";", "<", ">", "|", "&", or the tab character.

The current user will be set as the owner of the new **Term**.

If the *newTermId* already exists in the **TermStore**, an exception will be thrown.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Keyword TermSet (section 3.1.5.20) only allows a flat list of Term objects.
	ArgumentException	The name is not valid, it contains characters that are not valid, or is too long.
	ArgumentNullException	The <i>name</i> is null or empty string.
	ArgumentOutOfRangeException	The <i>lcid</i> is not valid.

3.1.5.16.2.2.4 GetAllLabels

Return Type: Microsoft.SharePoint.Client.Taxonomy.LabelCollection

Specifies all of the **Label** (section [3.1.5.10](#)) objects in the provided language code identifier (LCID).

Parameters:

lcid: The LCID that the **Label** objects are associated with.

Type: CSOM Int32

Remarks:

If **Label** objects exist for the specified *lcid*, the default **Label** is added first to the **LabelCollection** (section [3.1.5.11](#)) object, followed by the non-default **Labels**.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentOutOfRangeException	The <i>lcid</i> is not valid.

3.1.5.16.2.2.5 GetTerms

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Returns all **Term** (section [3.1.5.16](#)) instances that are descendants of the current **Term** with a **Label** (section [3.1.5.10](#)) in the provided language code identifier (LCID) and that match the **Label** name string provided. This method only checks default **Labels** if **defaultLabelOnly** is **true**.

Parameters:

termLabel: The **Term Label** name to match against

Type: CSOM String

lcid: This method searches only labels in this LCID.

Type: CSOM Int32

defaultLabelOnly: Indicates whether to search only default labels.

Type: CSOM Boolean

stringMatchOption: Indicates whether the search is exact match or starts with the string.

Type: Microsoft.SharePoint.Client.Taxonomy.StringMatchOption

resultCollectionSize: Maximum number of results returned.

Type: CSOM Int32

trimUnavailable: Indicates whether to include not available for tagging **Term** in the results.

Type: CSOM Boolean

Remarks:

The *termLabel* value will be normalized to trim consecutive spaces into one and replace the "&" character with the wide character version of the character (\uFF06). It MUST NOT be empty, exceed 255 characters, or contain any of the following characters: ";", "<", ">", "|", "&", or the tab character.

The search results are directly from **TermStore** (section [3.1.5.23](#)). The results may not be in sync with changes that have been made but not committed.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentOutOfRangeException	The <i>lcid</i> is not valid.
	ArgumentException	The <i>termLabel</i> is not valid, contains characters that are not valid, or is too long.
	ArgumentNullException	The <i>termLabel</i> is null or an empty string.

3.1.5.16.2.2.6 Merge

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Merges the current **Term** (section [3.1.5.16](#)) object with the specified **Term** and returns the combined **Term**.

Parameters:

termToMerge: The current **Term**.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

Remarks:

The current **Term** is the **Term** to merge from, and the *termToMerge* is the **Term** to merge into, otherwise called the target **Term**. After the **Merge** operation is complete, both **Term** objects become reused, and the *targetTerm* becomes the source of the reused **Term** objects. The target **Term** GUID becomes the GUID of the merged **Term**. The current **Term** GUID is added to **MergedTermIds** (section [3.1.5.16.1.1.17](#)).

The **Term** GUID in the custom sort order of the parents of the current **Term**, or any of its reused copies, is updated with the target **Term** GUID.

The custom sort order is merged in the following way: if the target **Term** has a custom sort order, then the source **Term** sort order is appended to it. Otherwise, if the target **Term** does not have a custom sort order but the source **Term** does, then a custom sort order is enforced based on the alphabetical order in the current working language (**WorkingLanguage** (section [3.1.5.23.1.1.6](#)), and the source **Term** custom sort order is appended to it.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The Term to merge into is null .
	ArgumentException	The Term to merge into is not valid.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Cannot merge a Term to its reused Term .
	TermStoreOperationException	Only a source Term can be merged into another source Term .
	TermStoreOperationException	Merge is not allowed for the two specified Term objects. The source Term and the target Term of the merge operation are reused in the same TermSet object, and MUST be siblings in that TermSet so that they can be merged.
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.

3.1.5.16.2.2.7 ReuseTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new reused **Term** (section [3.1.5.16](#)) object under this **TaxonomyItem** (section [3.1.5.14](#)) object based on a source **Term**.

Parameters:

sourceTerm: The source **Term** for the reused **Term**.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

reuseBranch: Reuses the **TermSetItem** (section [3.1.5.22](#)) and its child **Term** objects.

Type: CSOM Boolean

Remarks:

Reuses a term from a different **TermSet** to become a child of the current **TermSetItem** (section [3.1.5.22](#)). The target **TermSet** cannot be the keyword or orphaned terms **TermSet**. Keywords cannot be reused.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.

Error Code	Error Type Name	Condition
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Keywords are not allowed to be reused.
	TermStoreOperationException	Reusing a deprecated Term is disallowed.
	TermStoreOperationException	Term objects cannot be shared multiple times in the same TermSet (section 3.1.5.20).
	TermStoreOperationException	The target TermSet cannot be the keywords TermSet or the orphaned terms TermSet .
	ArgumentNullException	The source Term is null or not valid

3.1.5.16.2.2.8 ReuseTermWithPinning

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new **Term** (section [3.1.5.16](#)) under this **TaxonomyItem** (section [3.1.5.14](#)) instance based on a source term and makes this **Term** pinned so that only the local custom properties, **IsAvailableForTagging** (section [3.1.5.20.1.1.7](#)) and custom sort order for this **term set** can be changed in this term set.

Parameters:

sourceTerm: The source term.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

3.1.5.17 Microsoft.SharePoint.Client.Taxonomy.TermCollection

TypeId: {AC6D0DA8-9769-4425-A395-6413A9A0367E}

ShortName: SP.Taxonomy.TermCollection

Represents collection of **Term** (section [3.1.5.16](#)) objects.

3.1.5.17.1 Properties

3.1.5.17.1.1 Scalar Properties

None.

3.1.5.17.1.2 ObjectPath Properties

None.

3.1.5.17.2 Methods

3.1.5.17.2.1 Scalar Methods

None.

3.1.5.17.2.2 ObjectPath Methods

3.1.5.17.2.2.1 GetById

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Returns the **Term** (section [3.1.5.16](#)) specified by its **GUID** index.

Parameters:

index: The GUID index of the **Term** to be returned.

Type: CSOM GUID

3.1.5.17.2.2.2 GetByName

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Returns the **Term** section ([3.1.5.16](#)) specified by its index name.

Parameters:

index: The index name of the **Term** to be returned.

Type: CSOM String

3.1.5.18 Microsoft.SharePoint.Client.Taxonomy.TermGroup

TypeId: {65D76872-0B65-42DE-8EBD-D76F6D3491C6}

ShortName: SP.Taxonomy.TermGroup

Represents the top-level container in a **TermStore** (section [3.1.5.23](#)) object.

3.1.5.18.1 Properties

3.1.5.18.1.1 Scalar Properties

3.1.5.18.1.1.1 CreatedDate

Type: CSOM DateTime

Accessibility: Read Only

Specifies the date and time when this item was created.

3.1.5.18.1.1.2 Description

Type: CSOM String

Accessibility: Read/Write

Specifies the description of this **TermGroup** (section [3.1.5.18](#)) object.

3.1.5.18.1.1.3 Id

Type: CSOM GUID

Accessibility: Read Only

Specifies the identifier of the current **TaxonomyItem** (section [3.1.5.14](#)) object.

3.1.5.18.1.1.4 IsSiteCollectionGroup

Type: CSOM Boolean

Accessibility: Read Only

Specifies information about whether this **TermGroup** (section [3.1.5.18](#)) object is a **TermGroupCollection** (section [3.1.5.19](#)).

3.1.5.18.1.1.5 IsSystemGroup

Type: CSOM Boolean

Accessibility: Read Only

Specifies information about whether this **TermGroup** (section [3.1.5.18](#)) object is the system **TermGroup**.

3.1.5.18.1.1.6 LastModifiedDate

Type: CSOM DateTime

Accessibility: Read Only

Specifies the date and time when this item was most recently updated.

3.1.5.18.1.1.7 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name of this **TermGroup** (section [3.1.5.18](#)) object.

3.1.5.18.1.2 ObjectPath Properties

3.1.5.18.1.2.1 TermSets

Type: Microsoft.SharePoint.Client.Taxonomy.TermSetCollection

Accessibility: Read Only

Specifies a collection of the child **TermSet** (section [3.1.5.20](#)) instances of this **TermGroup** (section [3.1.5.18](#)).

3.1.5.18.1.2.2 TermStore

Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Accessibility: Read Only

Specifies the **TermStore** (section [3.1.5.23](#)) object from which the current **TaxonomyItem** (section [3.1.5.14](#)) was retrieved.

3.1.5.18.2 Methods

3.1.5.18.2.1 Scalar Methods

3.1.5.18.2.1.1 DeleteObject

Return Type: None

Deletes this **TermGroup** (section [3.1.5.18](#)) from the **TermStore** (section [3.1.5.23](#)) object.

Parameters: None

3.1.5.18.2.1.2 ExportObject

Return Type: CSOM String

This method is not implemented.

Parameters: None

3.1.5.18.2.1.3 NormalizeName

This method is a static CSOM method.

Return Type: CSOM String

Normalizes a name of a **TaxonomyItem** (section [3.1.5.14](#)) object.

Parameters:

name: The name to normalize.

Type: CSOM String

3.1.5.18.2.2 ObjectPath Methods

3.1.5.18.2.2.1 CreateTermSet

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Creates a new **TermSet** (section [3.1.5.20](#)) object in the current **TermGroup** (section [3.1.5.18](#)) object by using the provided language and the specified unique identifier.

Parameters:

name: The name of the new **TermSet** object that is being created.

Type: CSOM String

newTermSetId: The unique identifier of the new **TermSet** object that is being created.

Type: CSOM GUID

lcid: The language code identifier (LCID) for the language that the new **TermSet** name is written in.

Type: CSOM Int32

3.1.5.18.2.2.2 GetChanges

Return Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemCollection

Specifies a collection of **ChangedItem** (section [3.1.5.2](#)) objects that represent changes to this **TermGroup** (section [3.1.5.18](#)) since a specified time.

Parameters:

changeInformation: A Coordinated Universal Time (UTC) indicating the earliest change to be returned, as specified by **ChangeInformation** (section [3.1.5.26](#)).

Type: Microsoft.SharePoint.Client.Taxonomy.ChangeInformation

3.1.5.19 Microsoft.SharePoint.Client.Taxonomy.TermGroupCollection

TypeId: {FEF2ACDD-8FB1-40B9-A8B0-CCD9512A9105}

ShortName: SP.Taxonomy.TermGroupCollection

A collection of **TermGroup** (section [3.1.5.18](#)) objects.

3.1.5.19.1 Properties

3.1.5.19.1.1 Scalar Properties

None.

3.1.5.19.1.2 ObjectPath Properties

None.

3.1.5.19.2 Methods

3.1.5.19.2.1 Scalar Methods

None.

3.1.5.19.2.2 ObjectPath Methods

3.1.5.19.2.2.1 GetById

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Returns the **TermGroup** (section [3.1.5.18](#)) specified by its GUID index.

Parameters:

index: The GUID index of the **TermGroup**.

Type: CSOM GUID

3.1.5.19.2.2.2 GetByName

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Returns the **TermGroup** (section [3.1.5.18](#)) specified by its index name.

Parameters:

index: The name of the **TermGroup** index.

Type: CSOM String

3.1.5.20 Microsoft.SharePoint.Client.Taxonomy.TermSet

TypeId: {E26FEB13-2940-4DB9-A52B-12B160113A80}

ShortName: SP.Taxonomy.TermSet

Represents a hierarchical or flat set of **Term** (section [3.1.5.16](#)) objects known as a term set.

The **TermSet** object contains one or more child **Term** objects, and the root level of the hierarchy can be accessed through the **Terms** (section [3.1.5.20.1.2.2](#)) property. Get child **Term** objects by using search methods, such as **GetTerms** (section [3.1.5.20.2.2.6](#)). Permissions for editing the **TermSet** object and its child **Term** objects are defined on the parent **TermGroup** (section [3.1.5.18](#)) object of the current **TermSet**.

The **TermSet** object also provides properties to get and set values of the **TermSet**, such as name and description, and a way to delete **TermSet** objects. Additionally, the **TermSet** object provides methods for checking changes on the **TermSet**.

The **TermSet** object derives from the **TermSetItem** (section [3.1.5.22](#)) base object, which provides additional behavior such as the ability to create child **Term** objects.

3.1.5.20.1 Properties

3.1.5.20.1.1 Scalar Properties

3.1.5.20.1.1.1 Contact

Type: CSOM String

Accessibility: Read/Write

Specifies the contact for the current **TermSet** (section [3.1.5.20](#)) object.

Remarks:

It is recommended that the **Contact** value be an email address for a user who can be contacted for term suggestions and feedback. Contact information cannot be set on the orphaned terms **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet . The operation failed.
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.

3.1.5.20.1.1.2 CreatedDate

Type: CSOM DateTime

Accessibility: Read Only

Specifies the date and time when this item was created.

3.1.5.20.1.1.3 CustomProperties

Type: CSOM dictionary

Accessibility: Read Only

Specifies the custom properties for this **TermSet** (section [3.1.5.20](#)).

3.1.5.20.1.1.4 CustomSortOrder

Type: CSOM String

Accessibility: Read/Write

Specifies the custom sort order of the current **Term** (section [3.1.5.16](#)) object.

The property value is a string composed of the child **Term** GUIDs that are separated by a colon. When the custom sort order is **null** or empty, the child **Term** objects of the current **Term** is sorted alphabetically based on the working language of the current **TermStore** (section [3.1.5.23](#)) object.

Remarks:

If the custom sort order value contains invalid GUID or one of the GUIDs does not belong to its child **Term** objects, then it is ignored. If any child **Term** GUID is not included, then they will be sorted alphabetically following the **Term** objects with custom sort order.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	InvalidOperationException	The current Term is invalid.
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.

3.1.5.20.1.1.5 Description**Type:** CSOM String**Accessibility:** Read/WriteSpecifies the description for the current **TermSet** (section [3.1.5.20](#)) object.**Remarks:**

The description can be **null** or empty. The description cannot exceed 1000 characters, and it cannot contain any tab characters. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	ArgumentException	The input description value is too long or contains characters that are not valid.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.

3.1.5.20.1.1.6 Id**Type:** CSOM GUID**Accessibility:** Read OnlySpecifies the GUID identifier of the current **TaxonomyItem** (section [3.1.5.14](#)).**3.1.5.20.1.1.7 IsAvailableForTagging****Type:** CSOM Boolean**Accessibility:** Read/Write

Specifies whether the **TermSet** (section [3.1.5.20](#)) object should appear in the tagging user interface.

Remarks:

The property cannot be set in the orphaned terms **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Modifying tagging related properties of the orphaned terms TermSet is not allowed.

3.1.5.20.1.1.8 IsOpenForTermCreation

Type: CSOM Boolean

Accessibility: Read/Write

Indicates whether the **TermSet** can be updated by all users, or alternatively just by the specified contributors for the **TermGroup** (section [3.1.5.18](#)) object.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Modifying tagging related properties of the orphaned terms TermSet is not allowed.

Remarks:

A **true** value indicates that all users can add terms to the current **TermSet**. A value of **false** indicates that only contributors assigned to the **TermGroup** can add terms to the current **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

3.1.5.20.1.1.9 LastModifiedDate

Type: CSOM DateTime

Accessibility: Read Only

Specifies the date and time when this item was most recently updated.

3.1.5.20.1.1.10 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name for the current **TermSet** (section [3.1.5.20](#)) object.

Remarks:

Retrieving this property gets the name of the **TermSet** in the current **WorkingLanguage** (section [3.1.5.23.1.1.6](#)) property. If there is no name available for the **WorkingLanguage**, then the name for the **DefaultLanguage** is returned. Setting this property sets the name for the current **WorkingLanguage**. The name cannot exceed 255 characters, and it cannot contain the following characters: ;, ", <, >, |, &, or the tab character. Renaming is not permitted on any system **TermSet** objects, such as the keywords **TermSet** or the orphaned terms **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	ArgumentException	The value is invalid. It either contains invalid characters or is too long.
	TermStoreOperationException	The renaming of a system TermSet is not allowed.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet . The operation failed.
	ArgumentNullException	The name cannot be null or empty.

3.1.5.20.1.1.11 Owner

Type: CSOM String

Accessibility: Read/Write

Specifies the user who is responsible for the current **TermSet** (section [3.1.5.20](#)).

Returns the login name of the user who is the owner of the **TermSet**.

Remarks:

The **Owner** value can be an empty string. **Owner** cannot be set on the orphaned terms **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	ArgumentException	The user name is too long
	ArgumentException	The user name cannot be found.
	ArgumentNullException	The value is null .
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet . The operation failed.

3.1.5.20.1.2 ObjectPath Properties

3.1.5.20.1.2.1 Group

Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Accessibility: Read Only

Specifies the parent **TermGroup** (section [3.1.5.18](#)) object of the current **TermSet** (section [3.1.5.20](#)) object.

3.1.5.20.1.2.2 Terms

Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Accessibility: Read Only

Specifies a collection of child **Term** (section [3.1.5.16](#)) objects at the root of the **TermSet** (section [3.1.5.20](#)) object.

Remarks:

The return **TermCollection** (section [3.1.5.17](#)) is sorted based on the custom sort order. If there is no custom sort order defined, then it is sorted by label based on the alphabetical order of the **WorkingLanguage** (section [3.1.5.23.1.1.6](#)) property.

3.1.5.20.1.2.3 TermStore

Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Accessibility: Read Only

Specifies the **TermStore** (section [3.1.5.23](#)) object from which the current **TaxonomyItem** (section [3.1.5.14](#)) was retrieved.

3.1.5.20.2 Methods

3.1.5.20.2.1 Scalar Methods

3.1.5.20.2.1.1 DeleteCustomProperty

Return Type: None

Deletes a custom property for this **TermSet** (section [3.1.5.20](#)).

Parameters:

name: The name of the custom property to be deleted.

Type: CSOM String

3.1.5.20.2.1.2 DeleteObject

Return Type: None

Deletes the current **TermSet** (section [3.1.5.20](#)) from the current **TermGroup** (section [3.1.5.18](#)) object.

Remarks:

This method deletes the current **TermSet** object and all of its child **Term** (section [3.1.5.16](#)) objects. Any source **Term** members in the current **TermSet** object that are reused in other **TermSet** objects will be moved to the orphaned terms **TermSet**. The **Delete** operation is not permitted on any system **TermSet** object, such as the keywords **TermSet** or the orphaned terms **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet . The operation failed.
	TermStoreOperationException	Deleting a system TermSet is not allowed.

Parameters: None

3.1.5.20.2.1.3 ExportObject

Return Type: CSOM String

This method is not implemented.

Parameters: None

3.1.5.20.2.1.4 Move

Return Type: None

Moves the current **TermSet** (section [3.1.5.20](#)) into a different **TermGroup** (section [3.1.5.18](#)) object.

Parameters:

targetGroup: The **TermGroup** (section [3.1.5.18](#)) into which the current **TermSet** should be moved.

Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Remarks:

Moves the current TermSet and all of its child **Term** (section [3.1.5.16](#)) objects from the current **TermGroup** to the target **TermGroup**. **Move** is not permitted on any system **TermSet** objects, such as the keywords **TermSet** or the orphaned terms **TermSet**. Moving a **TermSet** to the System **TermGroup** is also not permitted. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	ArgumentNullException	The <i>targetGroup</i> MUST NOT be null .
	TermStoreOperationException	Moving a system TermSet is not allowed.
	TermStoreOperationException	Moving a TermSet to system TermGroup is not allowed.
	TermStoreOperationException	TermSet names MUST be unique within a TermGroup .
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet . The operation failed.

3.1.5.20.2.1.5 SetCustomProperty

Return Type: None

Adds a new custom property if one with the same name does not already exist. Updates the value of the property with the new value if the property already exists.

Parameters:

name: The name of the property to be updated.

Type: CSOM String

value: The value of the property to be added or updated.

Type: CSOM String

3.1.5.20.2.1.6 DeleteAllCustomProperties

Return Type: None

Deletes all of the custom properties from this **TermSet** (section [3.1.5.20](#)).

Parameters: None

3.1.5.20.2.1.7 NormalizeName

This method is a static CSOM method.

Return Type: CSOM String

Normalizes a name of a **TaxonomyItem** (section [3.1.5.14](#)) object.

Parameters:

name: The name to normalize.

Type: CSOM String

3.1.5.20.2.2 ObjectPath Methods

3.1.5.20.2.2.1 Copy

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Creates a copy of the **TermSet** (section [3.1.5.20](#)) object under the current parent **TermGroup** (section [3.1.5.18](#)) object.

Remarks:

All **Term** (section [3.1.5.16](#)) objects in the current **TermSet** become reused by the new **TermSet**. The copied **TermSet** will have a variation of the original **TermSet** name, such as having the text 'Copy of ' prefixed to the name. **Copy** is not permitted on any system **TermSet** objects, such as the keywords **TermSet** or the orphaned terms **TermSet**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet object. The operation failed.
	TermStoreOperationException	Copying a system TermSet is not allowed.

Parameters: None

3.1.5.20.2.2.2 CreateTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new **Term** (section [3.1.5.16](#)) object under this **TaxonomyItem** (section [3.1.5.14](#)) object. The name is the default **Label** (section [3.1.5.10](#)) for the specified language code identifier (LCID).

Parameters:

name: Default label for the LCID.

Type: CSOM String

lcid: LCID to create the label on.

Type: CSOM Int32

newTermId: GUID for the **Term**.

Type: CSOM GUID

Remarks:

If the specified LCID is not the default language of the **TermStore** (section [3.1.5.23](#)), a **Label** with the name and the default language of the **TermStore** will also be created to ensure the **Term** has a default **Label** for the default language of the **TermStore**.

If the current **TermSetItem** is the keyword **TermSet**, then **Label** is always created for the **TermStore** default language.

The name value will be normalized to trim consecutive spaces into one and replace the "&" character with the wide character version of the character (\uFF06). The leading and trailing spaces will be trimmed. It MUST NOT be empty, exceed 255 characters, or contain any of the following characters: ;, ", <, >, |, &, or the tab character.

The current user will be set as the owner of the new **Term**.

If the *newTermId* already exists in the **TermStore**, an exception will be thrown.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet . The operation failed.
	TermStoreOperationException	Keyword TermSet (section 3.1.5.20) only allows a flat list of Term objects.
	ArgumentException	The name is not valid, it contains invalid characters, or is too long.

Error Code	Error Type Name	Condition
	ArgumentNullException	The <i>name</i> is null or an empty string.
	ArgumentOutOfRangeException	The <i>lcid</i> is not valid.

3.1.5.20.2.2.3 GetAllTerms

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Returns a collection that contains a flat list of all **Term** (section [3.1.5.16](#)) objects in the **TermSet** (section [3.1.5.20](#)) object, as specified by **TermCollection** (section [3.1.5.17](#)).

Remarks:

Use this method if you need to do bulk operations on all **Term** objects in a **TermSet** and you want to avoid traversing the hierarchy. There is no specific order to the **Term** objects in the collection. The collection includes deprecated **Term** objects. To walk through the **Term** hierarchy, use the **Terms** (section [3.1.5.20.1.2.2](#)) property instead.

Parameters: None

3.1.5.20.2.2.4 GetChanges

Return Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemCollection

Specifies a collection of **ChangedItem** (section [3.1.5.2](#)) objects that represent changes to the current **TermSet** (section [3.1.5.20](#)) since a specified time.

Parameters:

changeInformation: A Coordinated Universal Time (UTC) indicating the earliest change to be included in the result collection, as specified by **ChangeInformation** (section [3.1.5.26](#)).

Type: Microsoft.SharePoint.Client.Taxonomy.ChangeInformation

3.1.5.20.2.2.5 GetTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Specifies a **Term** (section [3.1.5.16](#)) from the current **TermSet** (section [3.1.5.20](#)) based on its GUID identifier.

Parameters:

termId: The identifier of the **Term** to get.

Type: CSOM GUID

Remarks:

A **null** is returned if the **Term** cannot be found or if the user does not have sufficient permissions to access it.

3.1.5.20.2.2.6 GetTerms

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Specifies a collection of all **Term** (section [3.1.5.16](#)) objects from the current **TermSet** (section [3.1.5.20](#)) that have a **Label** (section [3.1.5.10](#)) object that matches the string provided in any language code identifier (LCID).

Parameters:

termLabel: The **Label** of the **Term** that the **GetTerms** property returns.

Type: CSOM String

trimUnavailable: A Boolean indicating whether to trim out **Term** objects that have the **IsAvailableForTagging** (section [3.1.5.20.1.1.7](#)) property set to **false**.

Type: CSOM Boolean

Remarks:

If *trimUnavailable* is **true**, then **Term** objects with the **IsAvailableForTagging** (section [3.1.5.20.1.1.7](#)) property set to **false** is trimmed from the results; otherwise, all **Term** objects are returned regardless of their **IsAvailableForTagging** value. All **Label** objects in all working languages are searched by using this method. The search is case-insensitive. A maximum of 100 results are returned from this search.

The *termLabel* MUST NOT be empty, exceed 255 characters, or contain any of the following characters: ;, ", <, >, |, &, or the tab character. To get the most accurate results, commit any pending changes to the database by using the **CommitAll** (section [3.1.5.23.2.1.1](#)) method before you execute this search.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The <i>termLabel</i> cannot be null or empty.
	ArgumentException	The value of <i>termLabel</i> is not valid. It either contains characters that are not valid or is too long.

3.1.5.20.2.2.7 GetTermsWithCustomProperty

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Specifies a collection of **Term** (section [3.1.5.16](#)) objects with a property that has the provided property name.

Parameters:

customPropertyName: The custom property name.

Type: CSOM String

trimUnavailable: A Boolean indicating whether to trim out **Term** objects that have the **IsAvailableForTagging** (section [3.1.5.20.1.1.7](#)) property set to **false**.

Type: CSOM Boolean

Remarks:

If *trimUnavailable* is **true**, then **Term** objects with the **IsAvailableForTagging** (section [3.1.5.20.1.1.7](#)) property set to **false** is trimmed from the results; otherwise, all matching **Term** objects are returned regardless of their **IsAvailableForTagging** value.

The *customPropertyName* MUST NOT be empty, exceed 255 characters, or contain any of the following characters: ;, ", <, >, |, &, or the tab character. A maximum of 100 results are returned from this search. To get the most accurate results, commit any pending changes to the database by using the **CommitAll** (section [3.1.5.23.2.1.1](#)) method before you execute this search.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The <i>customPropertyName</i> cannot be null or empty.
	ArgumentException	The value of <i>customPropertyName</i> is not valid. It either contains characters that are not valid or is too long.

3.1.5.20.2.2.8 ReuseTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new reused **Term** (section [3.1.5.16](#)) object under this **TaxonomyItem** (section [3.1.5.14](#)) object based on a **source term**.

Parameters:

sourceTerm: The source **Term** for the reused **Term**.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

reuseBranch: Reuses the **TermSetItem** (section [3.1.5.22](#)) and its child **Term** objects.

Type: CSOM Boolean

Remarks:

Reuses a **Term** (section [3.1.5.16](#)) from a different **TermSet** to become a child of the current **TermSetItem**. The target **TermSet** cannot be the keyword or orphaned term **TermSet**. Keywords cannot be reused.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned term TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Keywords are not allowed to be reused.
	TermStoreOperationException	Reusing a deprecated Term is not allowed.
	TermStoreOperationException	Term objects cannot be shared multiple times in the same TermSet .
	TermStoreOperationException	The target term set cannot be the keywords TermSet or the orphaned terms term set.
	ArgumentNullException	The source Term is null or not valid.

3.1.5.20.2.2.9 ReuseTermWithPinning

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Pins the given **Term** (section [3.1.5.16](#)) to the given target **TermSet** (section [3.1.5.20](#)).

Parameters:

sourceTerm: The source term.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

3.1.5.21 Microsoft.SharePoint.Client.Taxonomy.TermSetCollection

TypeId: {659DF998-3955-45FA-B64E-3D6CA277A97A}

ShortName: SP.Taxonomy.TermSetCollection

Represents a collection of **TermSet** (section [3.1.5.20](#)) objects.

3.1.5.21.1 Properties

3.1.5.21.1.1 Scalar Properties

None.

3.1.5.21.1.2 ObjectPath Properties

None.

3.1.5.21.2 Methods

3.1.5.21.2.1 Scalar Methods

None.

3.1.5.21.2.2 ObjectPath Methods

3.1.5.21.2.2.1 GetById

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Returns a **TermSet** (section [3.1.5.20](#)) specified by its GUID index.

Parameters:

index: The index of the **Termset** to be returned.

Type: CSOM GUID

3.1.5.21.2.2.2 GetByName

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Returns the **TermSet** (section [3.1.5.20](#)) specified by its index name.

Parameters:

index: The index name of the **TermSet**.

Type: CSOM String

3.1.5.22 Microsoft.SharePoint.Client.Taxonomy.TermSetItem

TypeId: {A99E4A8F-010B-4E56-9B29-B7BD6EC51263}

ShortName: SP.Taxonomy.TermSetItem

Provides an abstraction of the **TaxonomyItem** (section [3.1.5.14](#)) object that is a parent of **Term** (section [3.1.5.16](#)) objects.

TermSetItem is an abstract class and MUST be overridden. It contains references to the parts that define a **TaxonomyItem**; for example, **Name** (section [3.1.5.22.1.1.7](#)), **Id** (section [3.1.5.22.1.1.4](#)), and so on. **TermSetItem** also contains a collection of child **Term** objects and provides an interface to retrieve or update the child **Term** objects. If the **TermSetItem** is an orphaned term or keyword, it MUST NOT have any child objects.

Each **TermSetItem** has a user associated with it as the owner. It contains a flag that indicates whether it can be used in the tagging user interface. It also has a **CustomSortOrder** (section [3.1.5.22.1.1.3](#)) property that defines the sort order of the child **Terms**.

3.1.5.22.1 Properties

3.1.5.22.1.1 Scalar Properties

3.1.5.22.1.1.1 CreatedDate

Type: CSOM DateTime

Accessibility: Read Only

Specifies the date and time when this item was created.

3.1.5.22.1.1.2 CustomProperties

Type: CSOM dictionary

Accessibility: Read Only

Specifies the collection of effective custom property instances for this **Term** (section [3.1.5.16](#)) or **TermSet** (section [3.1.5.20](#)).

3.1.5.22.1.1.3 CustomSortOrder

Type: CSOM String

Accessibility: Read/Write

Specifies the custom sort order for the child items of the current item.

3.1.5.22.1.1.4 Id

Type: CSOM GUID

Accessibility: Read Only

Specifies the GUID identifier of the current **TaxonomyItem** (section [3.1.5.14](#)) object.

3.1.5.22.1.1.5 IsAvailableForTagging

Type: CSOM Boolean

Accessibility: Read/Write

Specifies the information about whether the **TaxonomyItem** (section [3.1.5.14](#)) appears in the tagging user interface.

3.1.5.22.1.1.6 LastModifiedDate

Type: CSOM DateTime

Accessibility: Read Only

Specifies the date and time when this item was most recently updated.

3.1.5.22.1.1.7 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the current **TaxonomyItem** (section [3.1.5.14](#)) object.

3.1.5.22.1.1.8 Owner

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the protocol client user who is responsible for this **TaxonomyItem** (section [3.1.5.14](#)) object.

3.1.5.22.1.2 ObjectPath Properties

3.1.5.22.1.2.1 Terms

Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Accessibility: Read Only

Gets a collection of the child **Term** (section [3.1.5.16](#)) objects of this **TaxonomyItem** (section [3.1.5.14](#)).

Returns a **TermCollection** (section [3.1.5.17](#)).

3.1.5.22.1.2.2 TermStore

Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Accessibility: Read Only

Gets the **TermStore** (section [3.1.5.23](#)) object from which the current **TaxonomyItem** (section [3.1.5.14](#)) was retrieved.

3.1.5.22.2 Methods

3.1.5.22.2.1 Scalar Methods

3.1.5.22.2.1.1 DeleteCustomProperty

Return Type: None

Deletes a custom property.

Parameters:

name: the name of the property to be deleted.

Type: CSOM String

3.1.5.22.2.1.2 DeleteObject

Return Type: None

Deletes the current **TaxonomyItem** (section [3.1.5.22](#)) object.

Parameters: None

3.1.5.22.2.1.3 SetCustomProperty

Return Type: None

Adds a new custom property or updates the value of an existing property.

Parameters:

name: The custom property name to set.

Type: CSOM String

value: The value to set for the specified custom property.

Type: CSOM String

3.1.5.22.2.1.4 DeleteAllCustomProperties

Return Type: None

Deletes all custom properties.

Parameters: None

3.1.5.22.2.1.5 NormalizeName

This method is a static CSOM method.

Return Type: CSOM String

Normalizes a name of a **TaxonomyItem** (section [3.1.5.14](#)) object.

Parameters:

name: The name to normalize.

Type: CSOM String

3.1.5.22.2.2 ObjectPath Methods

3.1.5.22.2.2.1 CreateTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new **Term** (section [3.1.5.16](#)) object under this **TaxonomyItem** (section [3.1.5.14](#)) object. The name is the default **Label** (section [3.1.5.10](#)) for the specified language code identifier (LCID).

Parameters:

name: Default label for the *lcid*.

Type: CSOM String

lcid: The LCID to create the label on.

Type: CSOM Int32

newTermId: GUID for the **Term**.

Type: CSOM GUID

Remarks:

If the specified LCID is not the default language of the **TermStore** (section [3.1.5.23](#)), a **Label** with the name and the default language of the **TermStore** will also be created to ensure the **Term** has a default **Label** for the default language of the **TermStore**.

If the current **TermSetItem** (section [3.1.5.22](#)) is the keyword **TermSet**, then **Label** is always created for the **TermStore** default language.

The name value will be normalized to trim consecutive spaces into one space and replace the "&" character with the wide character version of the character (\uFF06). The leading and trailing spaces will be trimmed. It MUST NOT be empty, exceed 255 characters, contain any of the following characters ;, ", <, >, | &, or the tab character.

The current user will be set as the owner of the new **Term**.

If the *newTermId* already exists in the **TermStore**, an exception will be thrown.

CommitAll (section [3.1.5.23.2.1.1](#)) method MUST be called to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Keyword TermSet (section 3.1.5.20) only allows a flat list of Term objects.
	ArgumentException	The <i>name</i> is not valid, it contains characters that are not valid, or is too long.
	ArgumentNullException	The <i>name</i> is null or an empty string.
	ArgumentOutOfRangeException	The <i>lcid</i> is not valid.

3.1.5.22.2.2.2 ReuseTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new reused **Term** (section [3.1.5.16](#)) object under this **TaxonomyItem** (section [3.1.5.14](#)) object based on a source term.

Parameters:

sourceTerm: The source **Term** for the reused **Term**.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

reuseBranch: Reuses the **TermSetItem** (section [3.1.5.22](#)) and its child **Term** objects.

Type: CSOM Boolean

Remarks:

Reuses a **Term** from a different **TermSet** to become a child of the current **TermSetItem**. The target **TermSet** cannot be the keyword or orphaned term **TermSet**. Keywords cannot be reused.

CommitAll (section [3.1.5.23.2.1.1](#)) method MUST be called to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The current user has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is invalid in the orphaned terms TermSet (section 3.1.5.20). The operation failed.
	TermStoreOperationException	Keywords are not allowed to be reused.
	TermStoreOperationException	Reusing a deprecated Term is not allowed.
	TermStoreOperationException	Terms cannot be shared multiple times in the same TermSet .
	TermStoreOperationException	The target TermSet cannot be the keywords TermSet or the orphaned terms TermSet .
	ArgumentNullException	The source Term is null or not valid.

3.1.5.22.2.2.3 GetTerms

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Gets a paged collection containing the child **Term** objects of this **TermSetItem** object.

Returns a **TermCollection** (section [3.1.5.17](#)).

Parameters:

pagingLimit: The maximum number of items to return in the collection.

Type: CSOM Int32

Remarks:

This method has the same results as **Terms** (section [3.1.5.22.1.2.1](#)), except that it returns a collection that supports paging.

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method before using a paged collection. The paged collection does not reflect uncommitted changes if the collection size is greater than the *pagingLimit*.

The returned term collection is sorted based on the custom sort order. If there is no custom sort order defined, then it is sorted based on alphabetic order of the **WorkingLanguage**. section ([3.1.5.23.1.1.6](#)) property values.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentException	The <i>pagingLimit</i> MUST be greater than zero.

3.1.5.22.2.2.4 ReuseTermWithPinning

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Creates a new **Term** (section [3.1.5.16](#)) under this **TaxonomyItem** (section [3.1.5.14](#)) based on a source term and makes this **Term** pinned so that only the local custom properties, **IsAvailableForTagging** (section [3.1.5.22.1.1.5](#)) and custom sort order for this **TermSet** (section [3.1.5.20](#)) can be changes in this **TermSet**.

Parameters:

sourceTerm: The source term.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

3.1.5.23 Microsoft.SharePoint.Client.Taxonomy.TermStore

TypeId: {9D8A8884-B1DC-4DBC-81C5-DDEA8AD3184C}

ShortName: SP.Taxonomy.TermStore

Represents a term store that contains metadata within child **TermGroup** (section [3.1.5.18](#)) objects, **TermSet** (section [3.1.5.20](#)) objects, and **Term** (section [3.1.5.16](#)) objects.

Remarks:

TermStore contains zero or more **TermGroup** objects, which are used to organize **Term** objects within **TermSets**. Access the groups through the **Groups** (section [3.1.5.23.1.2.1](#)) property.

The **TermStore** class also provides methods for creating new child **TermGroup** objects, getting and setting **TermStore** Administrator permissions on the **TermStore**, and checking permissions. Additionally, it provides properties that are used to get and set values of the **TermStore** object such as the set of working languages, and access to the keyword and orphaned term **TermSet** objects.

Use methods of the **TermStore** class such as the **GetTerms** (section [3.1.5.23.2.2.5](#)) and **GetTermSets** (section [3.1.5.23.2.2.7](#)) to search for and get **TermSet** and **Term** objects across all child groups

Finally, the **TermStore** provides the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to commit changes to the protocol database. **CommitAll** is the only way to persist changes to the database when updates are made in child objects, such as **TermGroup**, **TermSet**, and **Term**.

3.1.5.23.1 Properties

3.1.5.23.1.1 Scalar Properties

3.1.5.23.1.1.1 DefaultLanguage

Type: CSOM Int32

Accessibility: Read/Write

Specifies the language code identifier (LCID) of the default working language for the current **TermStore** (section [3.1.5.23](#)) object.

Remarks:

The **DefaultLanguage** property is one of the LCIDs in the **Languages** (section [3.1.5.23.1.1.4](#)) collection. Attempting to set a value that is not in the **Languages** collection automatically adds it to the **Languages** collection. Setting a new **DefaultLanguage** value is an expensive operation, which will create a new **Label** (section [3.1.5.10](#)) object for each **Term** in the **TermStore** if one does not already exist for the LCID of the new **DefaultLanguage**. If a new **Label** MUST be created on a **Term**, the value will be a copy of the value of the **Label** on that **Term** (section [3.1.5.16](#)) for the former **DefaultLanguage**. Generally the **DefaultLanguage** is used as the fallback language if a **WorkingLanguage** (section [3.1.5.23.1.1.6](#)) has not been specified for the current **TermStore** instance. For temporary language changing it is preferable to setting the **WorkingLanguage**. This method automatically calls **CommitAll** (section [3.1.5.23.2.1.1](#)), so any changes that are pending prior calling this method will automatically be persisted to the database.

3.1.5.23.1.1.2 Id

Type: CSOM GUID

Accessibility: Read Only

Gets the unique identifier of the **TermStore** (section [3.1.5.23](#)) object.

3.1.5.23.1.1.3 IsOnline

Type: CSOM Boolean

Accessibility: Read Only

Indicates whether this **TermStore** (section [3.1.5.23](#)) is currently online, or available.

Remarks:

This property is **false** if a **TermStore** is not available or instantiated.

3.1.5.23.1.1.4 Languages

Type: System.Collections.Generic.IEnumerable<System.Int32>

Accessibility: Read Only

Gets an integer collection of language code identifiers (LCIDs).

3.1.5.23.1.1.5 Name

Type: CSOM String

Accessibility: Read Only

Gets the name of the current **TermStore** (section [3.1.5.23](#)) object.

3.1.5.23.1.1.6 WorkingLanguage

Type: CSOM Int32

Accessibility: Read/Write

Specifies the current working language of the **TermStore** (section [3.1.5.23](#)) object.

Remarks:

The **WorkingLanguage** is one of the LCIDs in the **Languages** (section [3.1.5.23.1.1.4](#)) collection. Values that are not present in the **Languages** collection are skipped. If a **WorkingLanguage** is not explicitly set, it defaults to the LCID of the current user interface culture if it is one of the **Languages**, or alternately it defaults to the **DefaultLanguage** (section [3.1.5.23.1.1.1](#)). Setting the **WorkingLanguage** only has affect during the lifetime of this current **TermStore** instance. The value is not persisted to the database. It is useful for purposes of switching languages temporarily in user interface code.

3.1.5.23.1.1.7 ContentTypePublishingHub

Type: CSOM String

Accessibility: Read Only

Gets the **Uniform Resource Identifier (URI)** of the site (2) used as the content type syndication hub, if the hub exists.

Remarks:

Returns **null** if the hub does not exist.

3.1.5.23.1.2 ObjectPath Properties

3.1.5.23.1.2.1 Groups

Type: Microsoft.SharePoint.Client.Taxonomy.TermGroupCollection

Accessibility: Read Only

Gets a collection of the child **TermGroup** (section [3.1.5.18](#)) objects of this **TermStore** (section [3.1.5.23](#)) object.

Remarks:

If the protocol client is a farm or tenant admin then all **TermGroup** objects will be returned, including **site collection groups**. Otherwise, all global groups will be returned, and only the site collection group for the current site (2) will be returned if it exists.

3.1.5.23.1.2.2 KeywordsTermSet

Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Accessibility: Read Only

Gets the **TermSet** (section [3.1.5.20](#)) object for this **TermStore** (section [3.1.5.23](#)) object.

Remarks:

Contains the set of keyword **Term** (section [3.1.5.16](#)) objects.

3.1.5.23.1.2.3 OrphanedTermsTermSet

Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

Accessibility: Read Only

Gets the **TermSet** (section [3.1.5.20](#)) for this **TermStore** (section [3.1.5.23](#)) that contains the orphaned terms.

3.1.5.23.1.2.4 SystemGroup

Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Accessibility: Read Only

Gets the **TermGroup** (section [3.1.5.18](#)) object for this **TermStore** (section [3.1.5.23](#)) object, which contains the set of system term sets (keywords and orphaned terms)

3.1.5.23.2 Methods

3.1.5.23.2.1 Scalar Methods

3.1.5.23.2.1.1 CommitAll

Return Type: None

Commits all updates to the database that have occurred since the last commit or rollback.

When objects are edited in the **TermStore** object, or in child objects such as **TermGroup** (section [3.1.5.18](#)), **TermSet** (section [3.1.5.20](#)), or **Term** (section [3.1.5.16](#)), the changes are pending until the **CommitAll** method is called. After it is called, the updates that were made since the last **CommitAll** call are persisted to the term store's database. A successful call to **CommitAll** flushes the cache so that other consumers of the **TermStore** object will see the updates.

Parameters: None

3.1.5.23.2.1.2 AddLanguage

Return Type: None

Adds a working language to the **TermStore** (section [3.1.5.23](#)) object.

Parameters:

lcid: The language code identifier (LCID) of the working language to add.

Type: CSOM Int32

Remarks:

Adding additional working languages enables **Label** (section [3.1.5.10](#)) objects to be added to **Term** (section [3.1.5.16](#)) objects in multiple languages, enables the addition of multiple languages for **TermSet** (section [3.1.5.20](#)) names, and so on. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.

3.1.5.23.2.1.3 DeleteLanguage

Return Type: None

Deletes a working language from the **TermStore** object.

Parameters:

lcid: The language code identifier (LCID) for the language to be deleted.

Type: CSOM Int32

Remarks:

The language being deleted cannot be the **DefaultLanguage** (section [3.1.5.23.1.1.1](#)) or the last language in the **Languages** (section [3.1.5.23.1.1.4](#)) collection. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	TermStoreOperationException	The last language cannot be deleted.
	TermStoreOperationException	The default language cannot be deleted.

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.

3.1.5.23.2.2 ObjectPath Methods

3.1.5.23.2.2.1 CreateGroup

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Creates a new **TermGroup** (section [3.1.5.18](#)) object in this **TermStore** (section [3.1.5.23](#)).

Parameters:

name: The name of the new **TermGroup** being created.

Type: CSOM String

Remarks:

The name cannot exceed 255 characters, and it cannot contain the following characters: ;, ", <, >, |, [, &,], or the tab-character.

Additionally, the name MUST be a unique **TermGroup** name within the current **TermStore**. Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	ArgumentException	The <i>name</i> parameter is not valid. It either contains invalid characters, or is too long.
	ArgumentException	TermGroup names MUST be unique.
	ArgumentNullException	The name cannot be null or empty.

3.1.5.23.2.2.2 GetChanges

Return Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemCollection

Gets a collection of **ChangedItem** (section [3.1.5.2](#)) objects, as specified by **ChangedItemCollection** (section [3.1.5.3](#)), that represent changes to this **TermStore** (section [3.1.5.23](#)) since a specified time.

Parameters:

changeInformation: A Coordinated Universal Time (UTC) time indicating the earliest change to be included in the result collection. Specified by **ChangeInformation** (section [3.1.5.26](#)).

Type: Microsoft.SharePoint.Client.Taxonomy.ChangeInformation

Remarks:

The changes returned in the collection include changes in the **TermStore** and its child **TermGroup** (section [3.1.5.18](#)), **TermSet** (section [3.1.5.20](#)) objects, and **Term** (section [3.1.5.16](#)) objects. The collection returned can be empty.

3.1.5.23.2.2.3 GetGroup

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Gets a **TermGroup** (section [3.1.5.18](#)) object based on the identifier of the **TermGroup**.

Parameters:

id: The identifier of the **TermGroup** to get.

Type: CSOM GUID

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The <i>id</i> value cannot be a Guid.Empty value.

3.1.5.23.2.2.4 GetTerm

Return Type: Microsoft.SharePoint.Client.Taxonomy.Term

Gets a **Term** (section [3.1.5.16](#)) based on its identifier.

Parameters:

termId: The ID of the Term object to be retrieved

Type: CSOM GUID

Remarks:

If the current **Term** is a member of more than one **TermSet** (section [3.1.5.20](#)) objects, it will arbitrarily return the term from one of the **TermSet** objects. If the **Term** cannot be found or if the protocol client not have sufficient permissions to access it, the method returns **null**. This method searches for the **Term** object across all child groups and term sets that the protocol client has permissions to read.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The <i>termId</i> value cannot be Guid.Empty .

3.1.5.23.2.2.5 GetTerms

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

Returns a collection of all **Term** (section [3.1.5.16](#)) objects, as specified by **TermCollection** (section [3.1.5.17](#)), from all **TermSet** (section [3.1.5.20](#)) objects in this **TermStore** (section [3.1.5.23](#)) that the protocol client has permissions to read with a **Label** (section [3.1.5.10](#)) object that matches the provided string in any language code identifier (LCID).

Parameters:

termLabel: The **Label** of the **Term** to retrieve.

Type: CSOM String

trimUnavailable: A Boolean indicating whether to trim out terms that have **IsAvailableForTagging** (section [3.1.5.16.1.1.5](#)) set to **false**.

Type: CSOM Boolean

Remarks:

Call the **CommitAll** (section [3.1.5.23.2.1.1](#)) method to save this change to the database.

Exceptions:

Error Code	Error Type Name	Condition
	UnauthorizedAccessException	The protocol client has insufficient permissions to perform this operation.
	TermStoreOperationException	This operation is not valid in the orphaned terms TermSet object. The operation failed.

3.1.5.23.2.2.6 GetTermSet

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermSet

This method retrieves a **TermSet** (section [3.1.5.20](#)) object based on a **TermSet** identifier.

Parameters:

termSetId: The identifier of the **TermSet** to return.

Type: CSOM GUID

Remarks:

A **null** will be returned if the **TermSet** cannot be found or if the protocol client does not have sufficient permissions to access it. This method searches across all **TermGroup** (section [3.1.5.18](#)) objects in the **TermStore** (section [3.1.5.23](#)).

3.1.5.23.2.2.7 GetTermSets

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermSetCollection

This method retrieves a collection of all **TermSet** (section [3.1.5.20](#)) objects, as specified by **TermSetCollection** (section [3.1.5.21](#)), in this **TermStore** (section [3.1.5.23](#)) that the current user

has permissions to read that have a matching **TermSet** name in the provided language code identifier (LCID).

Parameters:

termSetName: The name of the **TermSet** to be retrieved.

Type: CSOM String

lcid: The LCID for the language the *termSetName* is in.

Type: CSOM Int32

Remarks:

The *termSetName* cannot be **null** or empty, and MUST NOT exceed 255 characters in length. It also cannot contain the following characters ;, ", <, >, |, &, or the tab character. The search is not case sensitive. To get the most accurate results, it is recommended that any pending changes be committed to the database by using **CommitAll** (section [3.1.5.23.2.1.1](#)) prior to executing this search.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The <i>termSetName</i> cannot be null or empty.
	ArgumentException	The value of <i>termSetName</i> is not valid. It either contains characters that are not valid, or is too long.

3.1.5.23.2.2.8 GetTermsWithCustomProperty

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

This method retrieves a collection of all **Term** (section [3.1.5.16](#)) objects, as specified by **TermCollection** (section [3.1.5.17](#)), from all **TermSet** (section [3.1.5.20](#)) objects in this **TermStore** (section [3.1.5.23](#)) that the protocol client has permissions to read, and that have a custom property with the provided property name.

Parameters:

customPropertyName: The custom property name.

Type: CSOM String

trimUnavailable: A Boolean indicating whether to trim out terms that have **IsAvailableForTagging** (section [3.1.5.16.1.1.5](#)) set to **false**.

Type: CSOM Boolean

Remarks:

If *trimUnavailable* is **true**, then terms that have **IsAvailableForTagging** set to **false** will be trimmed from the results; otherwise, all matching terms will be returned regardless of their **IsAvailableForTagging** value. The *customPropertyName* cannot be **null** or empty, and MUST NOT

exceed 255 characters in length. It also cannot contain the following characters ;, ", <, >, |, &, or the tab-character. The search is not case sensitive. A maximum of 100 results will be returned from this search. To get the most accurate results it is recommended that any pending changes be committed to the database using **CommitAll** (section [3.1.5.23.2.1.1](#)) prior to executing this search.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentNullException	The <i>customPropertyName</i> cannot be null or empty.
	ArgumentException	The value of <i>customPropertyName</i> is not valid. It either contains characters that are not valid, or is too long.

3.1.5.23.2.2.9 GetSiteCollectionGroup

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermGroup

Gets the **TermGroup** (section [3.1.5.18](#)) object related to a specified site collection or NULL if no such **TermGroup** (section [3.1.5.18](#)) object exists and the *createIfMissing* parameter is false.

Parameters:

currentSite: The site collection containing the **TermGroup** (section [3.1.5.18](#)) object to retrieve

Type: Microsoft.SharePoint.Client.Site

createIfMissing: Indicates whether to create a new **TermGroup** (section [3.1.5.18](#)) object if one does not exist yet for the specified site collection.

Type: CSOM Boolean

3.1.5.24 Microsoft.SharePoint.Client.Taxonomy.TermStoreCollection

TypeId: {E4A57A1E-7778-43FF-A88A-D5A61B231AFA}

ShortName: SP.Taxonomy.TermStoreCollection

Represents a collection of **TermStore** (section [3.1.5.23](#)) objects.

3.1.5.24.1 Properties

3.1.5.24.1.1 Scalar Properties

None.

3.1.5.24.1.2 ObjectPath Properties

None.

3.1.5.24.2 Methods

3.1.5.24.2.1 Scalar Methods

None.

3.1.5.24.2.2 ObjectPath Methods

3.1.5.24.2.2.1 GetById

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Returns the **TermStore** (section [3.1.5.23](#)) specified by its GUID index.

Parameters:

index: The GUID index of the **TermStore** to be returned.

Type: CSOM GUID

3.1.5.24.2.2.2 GetByName

Return Type: Microsoft.SharePoint.Client.Taxonomy.TermStore

Returns the **TermStore** (section [3.1.5.23](#)) specified by its index name.

Parameters:

index: The index name of the **TermStore** to be returned.

Type: CSOM String

3.1.5.25 Microsoft.SharePoint.Client.Taxonomy.MobileTaxonomyField

TypeId: {21743F26-63E3-432D-9093-89973BB23664}

ShortName: SP.Taxonomy.MobileTaxonomyField

Provides support for taxonomy fields on a mobile page.

3.1.5.25.1 Properties

3.1.5.25.1.1 Scalar Properties

3.1.5.25.1.1.1 ReadOnly

Type: CSOM Boolean

Accessibility: Read Only

Sets the current **MobileTaxonomyField** (section [3.1.5.25](#)) object to read-only.

3.1.5.25.1.2 ObjectPath Properties

None.

3.1.5.25.2 Methods

3.1.5.25.2.1 Scalar Methods

None.

3.1.5.25.2.2 ObjectPath Methods

None.

3.1.5.26 Microsoft.SharePoint.Client.Taxonomy.ChangeInformation

TypeId: {1F849FB0-4FCB-4A54-9B01-9152B9E482D3}

ShortName: SP.Taxonomy.ChangeInformation

An object that supports overloads for **TermGroup.GetChanges** (section [3.1.5.18.2.2.2](#)), **TermSet.GetChanges** (section [3.1.5.20.2.2.4](#)), and **TermStore.GetChanges** (section [3.1.5.23.2.2.2](#)) methods by combining the change information in one structure.

3.1.5.26.1 Properties

3.1.5.26.1.1 Scalar Properties

3.1.5.26.1.1.1 ItemType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedItemType

Accessibility: Read/Write

Specifies the **ChangedItemType** (section [3.1.5.4](#)).

Default is **Unknown** (section [3.1.5.4.1.1](#)).

3.1.5.26.1.1.2 OperationType

Type: Microsoft.SharePoint.Client.Taxonomy.ChangedOperationType

Accessibility: Read/Write

Specifies the **ChangedOperationtype** (section [3.1.5.5](#)).

Default is **Unknown** (section [3.1.5.5.1.1](#)).

3.1.5.26.1.1.3 StartTime

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the date and time that indicate the earliest change to be returned.

3.1.5.26.1.1.4 WithinTimeSpan

Type: System.TimeSpan

Accessibility: Read/Write

Specifies a time span within which changes should be returned.

3.1.5.26.1.2 ObjectPath Properties

None.

3.1.5.26.2 Methods

3.1.5.26.2.1 Scalar Methods

None.

3.1.5.26.2.2 ObjectPath Methods

3.1.5.26.2.2.1 CSOM Constructor

Creates a **ChangeInformation** (section [3.1.5.26](#)) object.

Parameters: None

3.1.5.27 Microsoft.SharePoint.Client.Taxonomy.TaxonomyField

TypeId: {0831C0F3-C1B9-4D8A-A339-0160F42257B4}

ShortName: SP.Taxonomy.TaxonomyField

Represents a taxonomy field.

After setting the properties of **TaxonomyField**, call the **Update** (section [3.1.5.27.2.1.9](#)) method for change to take effect in the database.

3.1.5.27.1 Properties

3.1.5.27.1.1 Scalar Properties

3.1.5.27.1.1.1 AllowMultipleValues

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether multiple **Term** (section [3.1.5.16](#)) objects can be used in the **TaxonomyField** (section [3.1.5.27](#)) object.

3.1.5.27.1.1.2 AnchorId

Type: CSOM GUID

Accessibility: Read/Write

Specifies the GUID of the anchor **Term** (section [3.1.5.16](#)) object for a **TaxonomyField** (section [3.1.5.27](#)) object.

Remarks:

An anchor **Term** is the **Term** in the hierarchical **TermStore** (section [3.1.5.23](#)) that serves as the root node of the **Term** objects that are permissible for the current **TaxonomyField** object.

3.1.5.27.1.1.3 CanBeDeleted

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that indicates whether the **TaxonomyField** (section [3.1.5.27](#)) can be deleted.

3.1.5.27.1.1.4 CreateValuesInEditForm

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether the new **Term** (section [3.1.5.16](#)) objects can be added to the **TermSet** (section [3.1.5.20](#)) while typing in the **TaxonomyField** (section [3.1.5.27](#)) editor control.

Remarks:

If this property is **true** and the **TermSet** is open, then typing text in the taxonomy field editor control will display a **Create New** option in the **Suggestions** drop-down list if that **Term** does not already exist at the root level of the **TermSet**. Selecting the **Create New** option will create a new **Term** with that text as the default **Label** (section [3.1.5.10](#)) object.

This property does not apply to the Enterprise keywords **TermSet** (section [3.1.5.20](#)), because it always allows new **Term** objects to be added by selecting **Create New** in the **Suggestions** drop-down list.

It is not possible to create **Term** objects that are created by using the **Create New** at an arbitrary position in the hierarchy of **Term** objects in the **TermSet**. All **Term** objects created with this option are created at the root level of the **TermSet**.

3.1.5.27.1.1.5 DefaultValue

Type: CSOM String

Accessibility: Read/Write

Specifies the default value for a field.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list that the TaxonomyField belongs to has an external data source.

3.1.5.27.1.1.6 Description

Type: CSOM String

Accessibility: Read/Write

Specifies a description for a **TaxonomyField** (section [3.1.5.27](#)).

3.1.5.27.1.1.7 Direction

Type: CSOM String

Accessibility: Read/Write

Gets or set the reading order for the **TaxonomyField** (section [3.1.5.27](#)).

Returns a string that contains "LTR" if the reading order is left-to-right, "RTL" if it is right-to-left, or none.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list that the TaxonomyField belongs to has an external data source and direction is not equal to none.

3.1.5.27.1.1.8 EnforceUniqueValues

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether to enforce uniqueness in column values. The default is **false**.

Remarks:

The value cannot be set to **false** for the built-in **TaxonomyFields** (section [3.1.5.27](#)) or for the site columns

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list has an external data source and trying to set the value to true .

3.1.5.27.1.1.9 FieldTypeKind

Type: Microsoft.SharePoint.Client.FieldType

Accessibility: Read/Write

Specifies the type of the **TaxonomyField** (section [3.1.5.27](#)).

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	This TaxonomyField belongs to a list that has an external data source and FieldTypeKind is changed.

3.1.5.27.1.1.10 Filterable

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that indicates whether the **TaxonomyField** (section [3.1.5.27](#)) can be filtered.

Remarks:

This property is **true** if the **TaxonomyField** can be filtered; otherwise, **false**.

3.1.5.27.1.1.11 FromBaseType

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that indicates whether the **TaxonomyField** (section [3.1.5.27](#)) derives from a base **TaxonomyField** type.

Remarks:

If the **FromBaseType** property returns **true**, the **TaxonomyField** cannot be converted to another **TaxonomyField** type, nor can it be deleted. This property is **true** if the **TaxonomyField** derives from a base **TaxonomyField** type; otherwise, **false**.

3.1.5.27.1.1.12 Group

Type: CSOM String

Accessibility: Read/Write

Specifies the column group to which the **TaxonomyField** (section [3.1.5.27](#)) belongs.

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

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	This TaxonomyField belongs to a list that has an external data source.

3.1.5.27.1.1.13 Hidden

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether the **TaxonomyField** (section [3.1.5.27](#)) is displayed in the list.

This property is **true** if the **TaxonomyField** is hidden; otherwise, **false**.

3.1.5.27.1.1.14 Id

Type: CSOM GUID

Accessibility: Read Only

Gets the GUID of the **TaxonomyField** (section [3.1.5.27](#)).

3.1.5.27.1.1.15 Indexed

Type: CSOM Boolean

Accessibility: Read Only

Sets a Boolean value that specifies whether this **TaxonomyField** (section [3.1.5.27](#)) is indexed.

Remarks:

This property is **true** to specify that the field is indexed; otherwise, **false**.

3.1.5.27.1.1.16 InternalName

Type: CSOM String

Accessibility: Read Only

Gets the internal name that is used for the **TaxonomyField** (section [3.1.5.27](#)).

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

3.1.5.27.1.1.17 IsAnchorValid

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that specifies whether the **Term** (section [3.1.5.16](#)) object identified by the **AnchorId** (section [3.1.5.27.1.1.2](#)) property is valid.

Remarks:

This property always returns **true** if the **TaxonomyField** (section [3.1.5.27](#)) points to the Enterprise keywords **TermSet** (section [3.1.5.20](#)), or if the **TaxonomyField** points to the entire **TermSet** (the **AnchorId** property returns **Guid.Empty**).

3.1.5.27.1.1.18 IsKeyword

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that indicates whether the **TaxonomyField** (section [3.1.5.27](#)) value points to the Enterprise keywords **TermSet** (section [3.1.5.20](#)) object.

Remarks:

The Enterprise keywords **TermSet** is always open and cannot contain hierarchical taxonomies. A **TaxonomyField** object that points to the Enterprise keywords **TermSet** allows multiple values by default.

When editing a **TaxonomyField** object with this property set to **true**, new **Term** (section [3.1.5.16](#)) objects can be added to the Enterprise keywords **TermSet** by selecting **Create New** in the **Suggestions** drop-down menu in the **TaxonomyField** editor control.

Because the **TermSet** does not support hierarchical taxonomies, the **Term** picker dialog box cannot be opened to pick **Term** objects for a **TaxonomyField** that has this property set to **true**.

3.1.5.27.1.1.19 IsPathRendered

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether the default **Label** (section [3.1.5.10](#)) objects of all the parent **Term** (section [3.1.5.16](#)) objects of a **Term** in the **TaxonomyField** (section [3.1.5.27](#)) object will be rendered in addition to the default label of that **Term**.

Remarks:

If this property is set to **true**, the **TaxonomyField** is rendered as a series of default labels separated by colon characters:

[RootLabel:....:ParentLabel:Label]

If this property is set to **false**, only the default **Label** of each **Term** is rendered.

If you set the **IsPathRendered** property you MUST call the **Update** (section [3.1.5.27.2.1.9](#)) method for changes to take effect in the database.

3.1.5.27.1.1.20 IsRelationship

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that indicates whether a **TaxonomyField** (section [3.1.5.27](#)) is discoverable from the list where it looks for its value.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The property is read and the list that this field belongs to is an external list.

3.1.5.27.1.1.21 IsTermSetValid

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that specifies whether the **TermSet** (section [3.1.5.20](#)) object identified by the **TermSetId** (section [3.1.5.27.1.1.37](#)) property exists and is available for tagging.

Remarks:

This property always returns **true** if the **TermSetId** property points to the Enterprise keywords **TermSet**.

3.1.5.27.1.1.22 LookupField

Type: CSOM String

Accessibility: Read/Write

Specifies the internal name of the **TaxonomyField** (section [3.1.5.27](#)) in a related list that is the source of this **TaxonomyField** object's value.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The property is read and the list that this TaxonomyField belongs to is an external list.

3.1.5.27.1.1.23 LookupList

Type: CSOM String

Accessibility: Read/Write

Specifies the string representation of the GUID that identifies the list that is the source of this **TaxonomyField** (section [3.1.5.27](#)) object's value.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The property is read and the list that this TaxonomyField belongs to is an external list.

3.1.5.27.1.1.24 LookupWebId

Type: CSOM GUID

Accessibility: Read/Write

Specifies the identifier of the **Web site (2)** that contains the list that is the source of this **TaxonomyField** (section [3.1.5.27](#)) object's value.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The property is read and the list that this TaxonomyField belongs to is an external list.

3.1.5.27.1.1.25 Open

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether the **TaxonomyField** (section [3.1.5.27](#)) object is linked to an open **TermSet** (section [3.1.5.20](#)) object or a closed **TermSet**.

Remarks:

A **TermSet** is open if new **Term** (section [3.1.5.16](#)) objects can be added to it. It is closed if new terms cannot be added to it.

3.1.5.27.1.1.26 PrimaryFieldId

Type: CSOM String

Accessibility: Read/Write

Specifies a string representation of the GUID that identifies the primary **lookup field** if the field is a dependent lookup field.

Remarks:

If the **TaxonomyField** (section [3.1.5.27](#)) is a secondary field in a multi-column lookup, this property returns the string representation of the GUID that identifies the primary lookup field; otherwise, it returns an empty string.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list that this TaxonomyField belongs to is an external list.

3.1.5.27.1.1.27 ReadOnlyField

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether values in the **TaxonomyField** (section [3.1.5.27](#)) can be modified.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	Thrown when attempting to change the value of ReadOnlyField when this TaxonomyField has an external data source.

3.1.5.27.1.1.28 RelationshipDeleteBehavior

Type: Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType

Accessibility: Read/Write

Specifies the delete behavior of the lookup field.

Remarks:

Possible values include **Cascade**, **Restrict** and **None**.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The property is read and the list that this TaxonomyField (section 3.1.5.27) belongs to is an external list.

3.1.5.27.1.1.29 Required

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether the protocol client MUST enter a value for the **TaxonomyField** (section [3.1.5.27](#)) on New or Edit forms.

Remarks:

This property is **true** if the **TaxonomyField** requires values; otherwise, **false**.

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	This TaxonomyField belongs to a list that has an external data source and Required is set to true .

3.1.5.27.1.1.30 SchemaXml

Type: CSOM String

Accessibility: Read/Write

Specifies the **XML schema** that defines the **TaxonomyField** (section [3.1.5.27](#)).

The XML Schema MUST be an XML document that conforms to the **FieldDefinitions** type, as specified in [\[MS-WSSCAML\]](#) section 2.3.2.9, or a string that is **null** or empty.

Exceptions:

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

3.1.5.27.1.1.31 Scope

Type: CSOM String

Accessibility: Read Only

Gets the Web site (2) relative path to the list where the **TaxonomyField** (section [3.1.5.27](#)) collection is used.

3.1.5.27.1.1.32 Sealed

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that specifies whether the **TaxonomyField** (section [3.1.5.27](#)) can be removed from a content type or list.

3.1.5.27.1.1.33 Sortable

Type: CSOM Boolean

Accessibility: Read Only

Gets a Boolean value that specifies whether the **TaxonomyField** (section [3.1.5.27](#)) can be sorted.

3.1.5.27.1.1.34 SspId

Type: CSOM GUID

Accessibility: Read/Write

Specifies the GUID that identifies the **TermStore** (section [3.1.5.23](#)) object, which contains the Enterprise keywords for the site (2) that the current **TaxonomyField** (section [3.1.5.27](#)) belongs to.

Remarks:

If the GUID that identifies the **TermStore** cannot be found, a **Guid.Empty** object is returned.

3.1.5.27.1.1.35 StaticName

Type: CSOM String

Accessibility: Read/Write

Specifies a static name for the **TaxonomyField** (section [3.1.5.27](#)).

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	This TaxonomyField belongs to a list that has an external data source, and StaticName is changed.

3.1.5.27.1.1.36 TargetTemplate

Type: CSOM String

Accessibility: Read/Write

Specifies the Web-relative Uniform Resource Locator (URL) of the target page that is used to construct the hyperlink on each **Term** (section [3.1.5.16](#)) object when the **TaxonomyField** (section [3.1.5.27](#)) object is rendered.

3.1.5.27.1.1.37 TermSetId

Type: CSOM GUID

Accessibility: Read/Write

Specifies the GUID of the **TermSet** (section [3.1.5.20](#)) object that contains the **Term** (section [3.1.5.16](#)) objects used by the current **TaxonomyField** () object.

Remarks:

If the site (2), the **TaxonomySession** (section [3.1.5.15](#)) object, the **TermStore** (section [3.1.5.23](#)) object, or **TermSet** object cannot be found, the property returns an empty object.

3.1.5.27.1.1.38 TextField

Type: CSOM GUID

Accessibility: Read/Write

Specifies the GUID that identifies the hidden text field in an item.

Remarks:

Every **TaxonomyField** (section [3.1.5.27](#)) object contains a related hidden text field that contains a string representation of the **TaxonomyField** value. The hidden text field is identified by the GUID returned by this property.

3.1.5.27.1.1.39 Title

Type: CSOM String

Accessibility: Read/Write

Specifies the display name for the **TaxonomyField** (section [3.1.5.27](#)).

3.1.5.27.1.1.40 TypeAsString

Type: CSOM String

Accessibility: Read/Write

Gets the type of the **TaxonomyField** (section [3.1.5.27](#)) as a string value.

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

Exceptions:

Error Code	Error Type Name	Condition
-1	System.NotSupportedException	The list has an external data source.

3.1.5.27.1.1.41 TypeDisplayName

Type: CSOM String

Accessibility: Read Only

Gets the display name of the **TaxonomyField** (section [3.1.5.27](#)).

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

3.1.5.27.1.1.42 TypeShortDescription

Type: CSOM String

Accessibility: Read Only

Gets the description of the **TaxonomyField** (section [3.1.5.27](#)).

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

3.1.5.27.1.1.43 UserCreated

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a Boolean value that specifies whether the **TaxonomyField** (section [3.1.5.27](#)) object is linked to a customized **TermSet** (section [3.1.5.20](#)) object.

Remarks:

A **TermSet** is customized if it was created by using the **Customize your TermSet** option selected at the time the field was created.

Term (section [3.1.5.16](#)) objects in a customized **TermSet** are available to other users in the site (2) collection, but they are not offered as suggestions in Enterprise keywords columns.

3.1.5.27.1.1.44 ValidationFormula

Type: CSOM String

Accessibility: Read/Write

Indicates the formula referenced by the **TaxonomyField** (section [3.1.5.27](#)) and is evaluated when a list item is added or updated.

3.1.5.27.1.1.45 ValidationMessage

Type: CSOM String

Accessibility: Read/Write

Specifies a message to display to the user if validation fails for this **TaxonomyField** (section [3.1.5.27](#)).

Its length MUST be equal to or less than 1024.

3.1.5.27.1.2 ObjectPath Properties

3.1.5.27.1.2.1 DefaultValueTyped

Type: System.Object

Accessibility: Read Only

Gets the default **TaxonomyFieldValueCollection** (section [3.1.5.28](#)) or the **TaxonomyFieldValue** (section [3.1.5.13](#)) object.

Remarks:

If the **DefaultValue** property is **null** or an empty string, this property returns **null**.

Otherwise, if the **AllowMultipleValues** (section [3.1.5.27.1.1.1](#)) property is **true**, this property returns a **TaxonomyFieldValueCollection** object with the value set to the **DefaultValue** property. If the **AllowMultipleValues** property is **false**, this property returns a **TaxonomyFieldValue** object with the value set to the **DefaultValue** property.

3.1.5.27.1.2.2 FieldRenderingControl

Type: Microsoft.SharePoint.WebControls.BaseFieldControl

Accessibility: Read Only

Gets a **TaxonomyFieldControl** object that can be used to render the **TaxonomyField** (section [3.1.5.27](#)) object.

3.1.5.27.1.2.3 FieldValueType

Type: System.Type

Accessibility: Read Only

Gets the type of the **TaxonomyField** (section [3.1.5.27](#)) object.

Remarks:

If the **AllowMultipleValues** property is **true**, the returned type is **TaxonomyFieldValueCollection** (section [3.1.5.28](#)); otherwise, **TaxonomyFieldValue** (section [3.1.5.13](#)).

3.1.5.27.2 Methods

3.1.5.27.2.1 Scalar Methods

3.1.5.27.2.1.1 DeleteObject

Return Type: None

Deletes the **TaxonomyField** (section [3.1.5.27](#)).

Parameters: None

Exceptions:

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

3.1.5.27.2.1.2 GetFieldValueAsHtml

Return Type: CSOM String

Returns the **TaxonomyField** (section [3.1.5.27](#)) value in **Hypertext Markup Language (HTML)** format in order to render the **TaxonomyField** value directly on a page.

Parameters:

value: An object of type **TaxonomyFieldValue** (section [3.1.5.13](#)) or **TaxonomyFieldValueCollection** (section [3.1.5.28](#)) that represents the value to convert.

Type: System.Object

Remarks:

If the **AllowMultipleValues** (section [3.1.5.27.1.1.1](#)) property of the **TaxonomyField** object is **false**, the value parameter is expected to be of type **TaxonomyFieldValue** or **SPFieldLookupValue** or have an accurate string representation returned by the **ToString** method.

If the **AllowMultipleValues** property of the **TaxonomyField** object is **true**, the value parameter is expected to be of type **TaxonomyFieldValueCollection** or **SPFieldLookupValueCollection** or have an accurate string representation returned by the **ToString** method. The HTML returned by this method will contain each value in the collection separated by a semicolon character.

If the value parameter is a **SPFieldLookupValue** object or **SPFieldLookupValueCollection** object, the returned string will be HTML-encoded.

If the value parameter is **null**, an empty string is returned.

3.1.5.27.2.1.3 GetFieldValueAsText

Return Type: CSOM String

Returns a plain text representation of the **TaxonomyField** (section [3.1.5.27](#)) value.

Parameters:

value: An object of type **TaxonomyFieldValue** (section [3.1.5.13](#)) or **TaxonomyFieldValueCollection** (section [3.1.5.28](#)) that represents the value to convert.

Type: System.Object

Remarks:

If the *value* parameter is of type **TaxonomyFieldValue**, this method returns its label.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentException	The <i>value</i> parameter was of a type other than TaxonomyFieldValue or TaxonomyFieldValueCollection .

3.1.5.27.2.1.4 GetFilteringHtml

This method is a static CSOM method.

Return Type: CSOM String

Constructs an Hypertext Markup Language (HTML) string that can be rendered to display a list of **Term** (section [3.1.5.16](#)) objects that can be used to filter on the specified **TaxonomyField** (section [3.1.5.27](#)) object.

Parameters:

filterValues: A string containing the default HTML that will be rendered by SharePoint Foundation if this method is unable construct a custom HTML string.

Type: CSOM String

field: A **TaxonomyField** object that encapsulates the field to filter on.

Type: Microsoft.SharePoint.Client.Field

queryStr: The URL query string containing the GUID of the **Term** that is currently used as the filter and a flag indicating whether any of its descendants are to be included in the filter results.

Type: CSOM String

Remarks:

If the *filterValues* parameter is **null** or empty, or the field parameter is not of type **TaxonomyField**, or the **TaxonomyField** it encapsulates is an Enterprise keywords field, the HTML string supplied by the *filterValues* parameter is returned. Otherwise a custom HTML string is returned that can be used to render the filter values.

If the *queryStr* parameter contains both the key-value pairs matching "[FilterField([0-9]+)=]" and "[FilterData([0-9]+)=]" for the specified field, the value from the second pair is assumed to be of the form "[[0-1],GUID]". If the first part is 1, then all descendants of the **Term** identified by GUID will be included in the filter results.

The constructed HTML string contains a single nested unordered list ([UL]) that contains information about the filtering **Term** and the list item identifiers of the filtered list items. Descendent **Term** objects will be included in the filtering if the *queryStr* parameter indicates so.

3.1.5.27.2.1.5 GetValidatedString

Return Type: CSOM String

Validates the **TaxonomyField** (section [3.1.5.27](#)) value object using logic specific to the **TaxonomyField** object, and returns a serialized string representation of the validated field value object.

Parameters:

value: An object of type **TaxonomyFieldValue** (section [3.1.5.13](#)) or **TaxonomyFieldValueCollection** (section [3.1.5.28](#)) that represents the value to validate and serialize.

Type: System.Object

Remarks:

If the **AllowMultipleValues** (section [3.1.5.27.1.1.1](#)) property of the **TaxonomyField** object is **false**, the value parameter is expected to be of type **TaxonomyFieldValue**.

If the **AllowMultipleValues** property of the **TaxonomyField** object is **true**, the value parameter is expected to be of type **TaxonomyFieldValueCollection** or **SPFieldLookupValueCollection**.

Exceptions:

Error Code	Error Type Name	Condition
	SPFieldValidationException	The <i>value</i> parameter contains a TaxonomyFieldValue object with an invalid Term (section 3.1.5.16) GUID.

3.1.5.27.2.1.6 GetWssIdsOfKeywordTerm

This method is a static CSOM method.

Return Type: System.Int32[]

Gets an array of the list item identifiers of all the list items in the taxonomy hidden list where the Enterprise keywords field contains the specified **Term** (section [3.1.5.16](#)) object.

Parameters:

site: The site (2) that contains the taxonomy hidden list.

Type: Microsoft.SharePoint.Client.Site

termId: A GUID that uniquely identifies the **Term**.

Type: CSOM GUID

limit: The maximum number of list item identifiers to return.

Type: CSOM Int32

Remarks:

If the *site* parameter is **null** or the *limit* parameter is negative, the method returns an empty array.

3.1.5.27.2.1.7 GetWssIdsOfTerm

This method is a static CSOM method.

Return Type: System.Int32[]

Gets an array of the list item identifiers for all of the list items in the taxonomy hidden list that contain the specified **Term** (section [3.1.5.16](#)) object.

Parameters:

site: The site (2) that contains the taxonomy hidden list.

Type: Microsoft.SharePoint.Client.Site

termStoreId: A GUID object that uniquely identifies the **TermStore** (section [3.1.5.23](#)) object.

Type: CSOM GUID

termSetId: A GUID object that uniquely identifies the **TermSet** (section [3.1.5.20](#)) object.

Type: CSOM GUID

termId: A GUID object that uniquely identifies the **Term**.

Type: CSOM GUID

includeDescendants: A Boolean value that MUST be set to **true** if you want the list item identifiers of descendant **Term** objects to be included in the results.

Type: CSOM Boolean

limit: The maximum number of list item identifiers to return.

Type: CSOM Int32

Remarks:

If the *TermSetId* parameter is empty and the *includeDescendants* parameter is set to **false**, the method will consider the **Term** to be an Enterprise keyword and search only the corresponding field in the taxonomy hidden list.

If the *site* parameter is **null** or the *limit* parameter is negative, the method will return an empty array.

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentException	The <i>includeDescendants</i> parameter MUST be false on keyword searches; in other words, if the <i>TermSetId</i> parameter is empty).

3.1.5.27.2.1.8 SetFieldValue

Return Type: None

Sets the value of the corresponding field in the list item to the value of the specified **TaxonomyFieldValue** (section [3.1.5.13](#)) object.

Parameters:

item: The **list item** whose field is to be updated.

Type: Microsoft.SharePoint.Client.ListItem

taxValue: The **TaxonomyFieldValue** object whose value is to be used to update this field.

Type: Microsoft.SharePoint.Client.Taxonomy.TaxonomyFieldValue

Exceptions:

Error Code	Error Type Name	Condition
	ArgumentException	One or more of the arguments to this method are null .

3.1.5.27.2.1.9 Update

Return Type: None

Updates the database with changes that are made to the **TaxonomyField** (section [3.1.5.27](#)) object.

Parameters: None

3.1.5.27.2.1.10 UpdateAndPushChanges

Return Type: None

Updates the database with changes that are made to the **TaxonomyField** (section [3.1.5.27](#)) and optionally propagates the changes to lists that implement the **TaxonomyField**.

Parameters:

pushChangesToLists: **true** to propagate changes to lists that implement the **TaxonomyField**; otherwise, **false**.

Type: CSOM Boolean

Exceptions:

Error Code	Error Type Name	Condition
- 2130246331	Microsoft.SharePoint.SPException	Trying to change the type of a field, when the field is changing to be indexed or has already been indexed.
- 2130246238	Microsoft.SharePoint.SPException	Trying to remove a field from the index, when the field does not allow duplicate values.
- 2130246236	Microsoft.SharePoint.SPException	Trying to change the type of a field that does not allow duplicate values.

3.1.5.27.2.1.11 ValidateSetValue

Return Type: None

Validates a **TaxonomyField** (section [3.1.5.27](#)) value.

Parameters:

item: A list item that contains a **TaxonomyField** whose value is to be validated.

Type: Microsoft.SharePoint.Client.ListItem

It MUST NOT be NULL.

value: The input value that is to be validated.

Type: CSOM String

3.1.5.27.2.1.12 SetFieldValueCollection

Return Type: None

Sets the value of the corresponding multi-valued field in the list item to the value of the specified **TaxonomyFieldValueCollection** object (section [3.1.5.28](#)).

Parameters:

item: The list item object whose field is to be updated.

Type: Microsoft.SharePoint.Client.ListItem

taxValueCollection: The **TaxonomyFieldValueCollection** object whose value is to be used to update this **TaxonomyField** (section [3.1.5.27](#)).

Type: Microsoft.SharePoint.Client.Taxonomy.TaxonomyFieldValueCollection

3.1.5.27.2.2 ObjectPath Methods

3.1.5.27.2.2.1 CSOM Constructor

Creates a new instance of the **TaxonomyField** (section [3.1.5.27](#)) object that is based on the specified field collection and name.

Parameters:

fields: The parent field collection.

Type: Microsoft.SharePoint.Client.FieldCollection

fieldName: The name of the field.

Type: CSOM String

3.1.5.28 Microsoft.SharePoint.Client.Taxonomy.TaxonomyFieldValueCollection

TypeId: {C3DFAE10-F3BF-4894-9012-BB60665B6D91}

ShortName: SP.Taxonomy.TaxonomyFieldValueCollection

Represents the multi-value object for the taxonomy column.

3.1.5.28.1 Properties

3.1.5.28.1.1 Scalar Properties

None.

3.1.5.28.1.2 ObjectPath Properties

None.

3.1.5.28.2 Methods

3.1.5.28.2.1 Scalar Methods

3.1.5.28.2.1.1 PopulateFromLabelGuidPairs

Return Type: None

This method adds **TaxonomyFieldValue** (section [3.1.5.13](#)) objects based on the parsing of the text.

Parameters:

text: Values to add as a string.

Type: CSOM String

Remarks:

Values MUST be added as label/Guid pairs. The format is as follows: label|GUID This can be repeated multiple times delimited by a ;. All **WssId** values will be set to -1.

3.1.5.28.2.2 ObjectPath Methods

3.1.5.28.2.2.1 CSOM Constructor

Creates a new instance of a **TaxonomyFieldValueCollection** (section [3.1.5.28](#)) that is bound to the creatingField parameter.

Parameters:

fieldValue: Field that this value is bound to

Type: CSOM String

creatingField: String to parse for the value

Type: Microsoft.SharePoint.Client.Field

The fieldValue MUST be in the format wss Id;#Label|Guid. You can repeat this entry for multiple values by repeating the ;# characters. This value is not bound to a field, so some methods may throw a MemberAccessException.

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

4 Protocol Examples

The examples in this section demonstrate common usage scenarios around creating, adding, updating, and deleting terms in a term set. All of the examples use a group and term set that contains a hierarchical collection of conference room terms. The complete hierarchy is listed in the following table.

Name	Type	Id
Conferences	Group	{6F3CA467-B915-4901-A38E-907D4A048712}
Conference Rooms	Term Set	{E143C875-5A3C-4C38-B13F-ABE2CEDC1573}
Auditoriums	Term	{63161CAE-A38C-4C3B-976B-71F76506FD5B}
Auditorium C	Term	{B72D8AE6-E6A6-47FE-82D8-099F070FDD37}
Auditorium D	Term	{03AE29CE-739C-491B-A119-C79A5AA7FA0C}
Auditorium E	Term	{984DC45A-139F-426F-B0BF-AA1CD275E024}
Halls	Term	{AA770CFB-EB06-4091-9860-9FB6913A4FCF}
Hall A	Term	{80938290-52B2-4713-B32D-6E55D194E2EA}
Hall B	Term	{6CB787F9-5339-4024-9EFC-6D8BBC24C51D}
Hall C	Term	{28E647DB-BECF-4CAA-83EC-1A5293CE127A}

The example in section [4.1](#) creates the entire taxonomy using the ids as described in the previous table. The remaining examples demonstrate adding, modifying, or removing terms from the term set. All of the examples use a **TermStore** (section [3.1.5.23](#)) named "Managed Metadata Service Application Proxy".

4.1 Create a New Group and Term Set

In this example, a new group and term set is created. The term set represents a collection of conference rooms as described in section [4](#).

The operation is summarized in the following steps.

1. The "Managed Metadata Service Application Proxy" **TermStore** object is retrieved by calling the **GetByName** method on the **TermStores** object.
2. The **CreateGroup** method is called on the **TermStore** object to create the "Conferences" group.
3. The **CreateTermSet** method is called on the **Group** object to create the "Conference Rooms" term set.
4. The **CreateTerm** method is called on the **TermSet** object and subsequent **Term** objects to construct the hierarchy of conference room terms.

Request:

```

<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0"
ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="2" ObjectPathId="1" />
    <ObjectPath Id="4" ObjectPathId="3" />
    <ObjectPath Id="6" ObjectPathId="5" />
    <ObjectPath Id="8" ObjectPathId="7" />
    <ObjectPath Id="10" ObjectPathId="9" />
    <ObjectIdentityQuery Id="11" ObjectPathId="9" />
    <ObjectPath Id="13" ObjectPathId="12" />
    <ObjectPath Id="15" ObjectPathId="14" />
    <ObjectIdentityQuery Id="16" ObjectPathId="14" />
    <ObjectPath Id="18" ObjectPathId="17" />
    <ObjectIdentityQuery Id="19" ObjectPathId="17" />
    <ObjectPath Id="21" ObjectPathId="20" />
    <ObjectIdentityQuery Id="22" ObjectPathId="20" />
    <ObjectPath Id="24" ObjectPathId="23" />
    <ObjectIdentityQuery Id="25" ObjectPathId="23" />
    <ObjectPath Id="27" ObjectPathId="26" />
    <ObjectIdentityQuery Id="28" ObjectPathId="26" />
    <ObjectPath Id="30" ObjectPathId="29" />
    <ObjectIdentityQuery Id="31" ObjectPathId="29" />
    <ObjectPath Id="33" ObjectPathId="32" />
    <ObjectIdentityQuery Id="34" ObjectPathId="32" />
    <ObjectPath Id="36" ObjectPathId="35" />
    <ObjectIdentityQuery Id="37" ObjectPathId="35" />
    <ObjectPath Id="39" ObjectPathId="38" />
    <ObjectIdentityQuery Id="40" ObjectPathId="38" />
    <ObjectPath Id="42" ObjectPathId="41" />
    <ObjectIdentityQuery Id="43" ObjectPathId="41" />
    <Method Name="CommitAll" Id="44" ObjectPathId="9" />
  </Actions>
  <ObjectPaths>
    <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
    <Property Id="3" ParentId="1" Name="Site" />
    <Constructor Id="5" TypeId="{981cbc68-9edc-4f8d-872f-71146fcbb84f}">
      <Parameters>
        <Parameter ObjectPathId="3" />
        <Parameter Type="Boolean">>true</Parameter>
      </Parameters>
    </Constructor>
    <Property Id="7" ParentId="5" Name="TermStores" />
    <Method Id="9" ParentId="7" Name="GetByName">
      <Parameters>
        <Parameter Type="String">Managed Metadata Service Application Proxy</Parameter>
      </Parameters>
    </Method>
    <Constructor Id="12" TypeId="{981cbc68-9edc-4f8d-872f-71146fcbb84f}">
      <Parameters>
        <Parameter ObjectPathId="3" />
        <Parameter Type="Boolean">>true</Parameter>
      </Parameters>
    </Constructor>
    <Method Id="14" ParentId="9" Name="CreateGroup">
      <Parameters>
        <Parameter Type="String">Conferences</Parameter>
      </Parameters>
    </Method>
  </ObjectPaths>
</Request>

```

```

    </Parameters>
  </Method>
  <Method Id="17" ParentId="14" Name="CreateTermSet">
    <Parameters>
      <Parameter Type="String">Conference Rooms</Parameter>
      <Parameter Type="Guid">{e143c875-5a3c-4c38-b13f-abe2cedc1573}</Parameter>
      <Parameter Type="Int32">1033</Parameter>
    </Parameters>
  </Method>
  <Method Id="20" ParentId="17" Name="CreateTerm">
    <Parameters>
      <Parameter Type="String">Auditoriums</Parameter>
      <Parameter Type="Int32">1033</Parameter>
      <Parameter Type="Guid">{63161cae-a38c-4c3b-976b-71f76506fd5b}</Parameter>
    </Parameters>
  </Method>
  <Method Id="23" ParentId="20" Name="CreateTerm">
    <Parameters>
      <Parameter Type="String">Auditorium C</Parameter>
      <Parameter Type="Int32">1033</Parameter>
      <Parameter Type="Guid">{b72d8ae6-e6a6-47fe-82d8-099f070fdd37}</Parameter>
    </Parameters>
  </Method>
  <Method Id="26" ParentId="20" Name="CreateTerm">
    <Parameters>
      <Parameter Type="String">Auditorium D</Parameter>
      <Parameter Type="Int32">1033</Parameter>
      <Parameter Type="Guid">{03ae29ce-739c-491b-a119-c79a5aa7fa0c}</Parameter>
    </Parameters>
  </Method>
  <Method Id="29" ParentId="20" Name="CreateTerm">
    <Parameters>
      <Parameter Type="String">Auditorium E</Parameter>
      <Parameter Type="Int32">1033</Parameter>
      <Parameter Type="Guid">{984dc45a-139f-426f-b0bf-aalcd275e024}</Parameter>
    </Parameters>
  </Method>
  <Method Id="32" ParentId="17" Name="CreateTerm">
    <Parameters>
      <Parameter Type="String">Halls</Parameter>
      <Parameter Type="Int32">1033</Parameter>
      <Parameter Type="Guid">{aa770cfb-eb06-4091-9860-9fb6913a4fcf}</Parameter>
    </Parameters>
  </Method>
  <Method Id="35" ParentId="32" Name="CreateTerm">
    <Parameters>
      <Parameter Type="String">Hall A</Parameter>
      <Parameter Type="Int32">1033</Parameter>
      <Parameter Type="Guid">{80938290-52b2-4713-b32d-6e55d194e2ea}</Parameter>
    </Parameters>
  </Method>
  <Method Id="38" ParentId="32" Name="CreateTerm">
    <Parameters>
      <Parameter Type="String">Hall B</Parameter>
      <Parameter Type="Int32">1033</Parameter>
      <Parameter Type="Guid">{6cb787f9-5339-4024-9efc-6d8bbc24c51d}</Parameter>
    </Parameters>

```

```

</Method>
<Method Id="41" ParentId="32" Name="CreateTerm">
  <Parameters>
    <Parameter Type="String">Hall C</Parameter>
    <Parameter Type="Int32">1033</Parameter>
    <Parameter Type="Guid">{28e647db-becf-4caa-83ec-1a5293ce127a}</Parameter>
  </Parameters>
</Method>
</ObjectPaths>
</Request>

```

Response:

```

[
  {
    "SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3410.1000","ErrorInfo":null
  },2,{
    "IsNull":false
  },4,{
    "IsNull":false
  },6,{
    "IsNull":false
  },8,{
    "IsNull":false
  },10,{
    "IsNull":false
  },11,{
    "_ObjectIdentity_":"fec14c62-7c3b-481b-851b-c80d7802b224:st:TKE6KUANlkq7BYswGJADmQ=="
  },13,{
    "IsNull":false
  },15,{
    "IsNull":false
  },16,{
    "_ObjectIdentity_":"fec14c62-7c3b-481b-851b-c80d7802b224:gr:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHQ=="
  },18,{
    "IsNull":false
  },19,{
    "_ObjectIdentity_":"fec14c62-7c3b-481b-851b-c80d7802b224:se:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPPhPFo4TLE\u002fq+LO3BVz"
  },21,{
    "IsNull":false
  },22,{
    "_ObjectIdentity_":"fec14c62-7c3b-481b-851b-c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPPhPFo4TLE\u002fq+LO3BVzrhwWY4yj00yXa3H3ZQb9Ww=="
  },24,{
    "IsNull":false
  },25,{
    "_ObjectIdentity_":"fec14c62-7c3b-481b-851b-c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPPhPFo4TLE\u002fq+LO3BVz5oott6bm\u002fkeC2AmfBw\u002fdNw=="
  },27,{
    "IsNull":false
  },28,{

```

```

"_ObjectIdentity_": "fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVzzimuA5xz
G0mhGceaWqf6DA=="
}, 30, {
  "IsNull": false
}, 31, {
  "_ObjectIdentity_": "fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVzWsRNmJ8T
b0Kwv6oc0nXgJA=="
}, 33, {
  "IsNull": false
}, 34, {
  "_ObjectIdentity_": "fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVz+wx3qgbr
kUCYJ+2kTpPzw=="
}, 36, {
  "IsNull": false
}, 37, {
  "_ObjectIdentity_": "fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVzkIKTgLJS
E0ezLW5V0ZTi6g=="
}, 39, {
  "IsNull": false
}, 40, {
  "_ObjectIdentity_": "fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVz+Ye3bd1T
JECe\u002fG2LvCTFHQ=="
}, 42, {
  "IsNull": false
}, 43, {
  "_ObjectIdentity_": "fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVz20fmKM++
qkyD7BpSk84Seg=="
}
]

```

4.2 Retrieve a Term

In this example, the protocol client retrieves the term "Auditorium C" from the protocol server. The following operation retrieves the **Term** object (section [3.1.5.16](#)) named "Auditorium C" by calling the **GetTerms** method (section [3.1.5.20.2.2.6](#)) on the **TermSet** object (section [3.1.5.20](#)).

Request:

```

<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0"
ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="2" ObjectPathId="1" />
    <ObjectPath Id="4" ObjectPathId="3" />
    <ObjectPath Id="6" ObjectPathId="5" />
    <ObjectPath Id="8" ObjectPathId="7" />
    <ObjectPath Id="10" ObjectPathId="9" />
    <ObjectIdentityQuery Id="11" ObjectPathId="9" />
    <ObjectPath Id="13" ObjectPathId="12" />
    <Query Id="14" ObjectPathId="12">
      <Query SelectAllProperties="false">

```

```

        <Properties />
    </Query>
    <ChildItemQuery SelectAllProperties="false">
        <Properties>
            <Property Name="Name" ScalarProperty="true" />
        </Properties>
    </ChildItemQuery>
</Query>
</Actions>
<ObjectPaths>
    <StaticProperty Id="1" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current"
/>
    <Property Id="3" ParentId="1" Name="Site" />
    <Constructor Id="5" TypeId="{981cbc68-9edc-4f8d-872f-71146fcbb84f}">
        <Parameters>
            <Parameter ObjectPathId="3" />
            <Parameter Type="Boolean">true</Parameter>
        </Parameters>
    </Constructor>
    <Property Id="7" ParentId="5" Name="TermStores" />
    <Method Id="9" ParentId="7" Name="GetByName">
        <Parameters>
            <Parameter Type="String">Managed Metadata Service Application
Proxy</Parameter>
        </Parameters>
    </Method>
    <Method Id="12" ParentId="9" Name="GetTerms">
        <Parameters>
            <Parameter Type="String">Auditorium C</Parameter>
            <Parameter Type="Boolean">true</Parameter>
        </Parameters>
    </Method>
</ObjectPaths>
</Request>

```

The protocol server returns a **TermCollection** object (section [3.1.5.17](#)) that contains the **Term** object for "Auditorium C" and the requested **Name** property (section [3.1.5.16.1.1.12](#)).

Response:

```

[
  {
    "SchemaVersion": "15.0.0.0", "LibraryVersion": "15.0.3410.1000", "ErrorInfo": null
  }, 2, {
    "IsNull": false
  }, 4, {
    "IsNull": false
  }, 6, {
    "IsNull": false
  }, 8, {
    "IsNull": false
  }, 10, {
    "IsNull": false
  }, 11, {
    "_ObjectIdentity_": "fec14c62-7c3b-481b-851b-c80d7802b224:st:TKE6KUAnlkq7BYswGJADmQ=="
  }, 13, {

```


]

The protocol client then calls the **CreateTerm** method (section [3.1.5.16.2.2.3](#)) on the **Term** object to create the "Hall D" term.

Request:

```
<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0"
ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="95" ObjectPathId="94" />
    <ObjectIdentityQuery Id="96" ObjectPathId="94" />
    <Method Name="CommitAll" Id="97" ObjectPathId="9" />
  </Actions>
  <ObjectPaths>
    <Method Id="94" ParentId="90" Name="CreateTerm">
      <Parameters>
        <Parameter Type="String">Hall D</Parameter>
        <Parameter Type="Int32">1033</Parameter>
        <Parameter Type="Guid">{32d50796-39ed-44bb-9fb1-b991a532b128}</Parameter>
      </Parameters>
    </Method>
    <Identity Id="9" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:st:TKE6KUANlkq7BYswGJADmQ==" />
    <Identity Id="90" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgoJxHR1yEPHPFo4TLE/q+LO3BVz+wx3qgbrkUCYY
J+2kTpPzw==" />
  </ObjectPaths>
</Request>
```

The protocol server returns the **Term** object of the new term.

Response:

```
[
{
  "SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3410.1000","ErrorInfo":null
},95,{
  "IsNull":false
},96,{
  "_ObjectIdentity_":"fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgoJxHR1yEPHPFo4TLE\u002fq+LO3BVz1gfvMu05
u0SfsbmRpTKxKA=="
}
]
```

4.4 Delete an Existing Term

In this example, the protocol client deletes the term "Auditorium C" from the conference rooms term set on the protocol server.

In the following operation, the protocol client retrieves the **Term** object (section [3.1.5.16](#)) for "Auditorium C" by passing the correct id to the **GetTerm** method (section [3.1.5.23.2.2.4](#)) on the **TermStore** object (section [3.1.5.23](#)).

Request:

```
<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0"
ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="356" ObjectPathId="355" />
    <ObjectIdentityQuery Id="357" ObjectPathId="355" />
  </Actions>
  <ObjectPaths>
    <Method Id="355" ParentId="9" Name="GetTerm">
      <Parameters>
        <Parameter Type="Guid">{f1a930e8-77e2-4875-b48c-9ea741a5849f}</Parameter>
      </Parameters>
    </Method>
    <Identity Id="9" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:st:TKE6KUAh1kq7BYswGJADmQ==" />
  </ObjectPaths>
</Request>
```

The protocol server returns the **Term** object for "Auditorium C".

Response:

```
[
{
  "SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3410.1000","ErrorInfo":null
},356,{
  "IsNull":false
},357,{
  "_ObjectIdentity_":"fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUAh1kq7BYswGJADmQGpI3ewiWBMvXAXIGxHR1yEPHPhPFo4TLE\u002fq+LO3BVz6DCp8eJ3
dUi0jJ6nQaWEnw=="
}
]
```

The protocol client then calls the **DeleteObject** method (section [3.1.5.16.2.1.2](#)) on the **Term** object. It also calls the **CommitAll** method (section [3.1.5.23.2.1.1](#)) on the **TermStore** object to commit the change.

Request:

```
<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0"
ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <Method Name="DeleteObject" Id="359" ObjectPathId="355" />
    <Method Name="CommitAll" Id="360" ObjectPathId="9" />
  </Actions>
  <ObjectPaths>
```

```

    <Identity Id="355" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgoJxHR1yEPhPFo4TLE/q+LO3BVz6DCp8eJ3dUi0j
J6nQaWEnw==" />
    <Identity Id="9" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:st:TKE6KUANlkq7BYswGJADmQ==" />
  </ObjectPaths>
</Request>

```

The protocol server returns no errors.

Response:

```

[
{
"SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3410.1000","ErrorInfo":null
}
]

```

4.5 Add a New Label

In this example, the protocol client modifies the term "Hall A" on the protocol server by adding a new label named "Baker."

In the following operation, the protocol client retrieves the **Term** object (section [3.1.5.16](#)) for "Hall A" by passing the correct **id** to the **GetTerm** method (section [3.1.5.23.2.2.4](#)) on the **TermStore** object (section [3.1.5.23](#)).

Request:

```

<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0"
ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="439" ObjectPathId="438" />
    <ObjectIdentityQuery Id="440" ObjectPathId="438" />
  </Actions>
  <ObjectPaths>
    <Method Id="438" ParentId="9" Name="GetTerm">
      <Parameters>
        <Parameter Type="Guid">{80938290-52b2-4713-b32d-6e55d194e2ea}</Parameter>
      </Parameters>
    </Method>
    <Identity Id="9" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:st:TKE6KUANlkq7BYswGJADmQ==" />
  </ObjectPaths>
</Request>

```

The protocol server returns the **Term** object for "Hall A."

Response:

```

[
{

```

```

"SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3410.1000","ErrorInfo":null
},439,{
"IsNull":false
},440,{
"_ObjectIdentity_":"fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgoJxHR1yEPHpfO4TLE\u002fq+LO3BVzkIKTgLJS
E0ezLW5V0ZTi6g=="
}
]

```

The protocol client then calls the **CreateLabel** method (section [3.1.5.16.2.2.2](#)) on the **Term** object to create the "Baker" label.

Request:

```

<Request AddExpandoFieldTypeSuffix="true" SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0"
ApplicationName=".NET Library"
xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009">
  <Actions>
    <ObjectPath Id="443" ObjectPathId="442" />
    <ObjectIdentityQuery Id="444" ObjectPathId="442" />
    <Method Name="CommitAll" Id="445" ObjectPathId="9" />
  </Actions>
  <ObjectPaths>
    <Method Id="442" ParentId="438" Name="CreateLabel">
      <Parameters>
        <Parameter Type="String">Baker</Parameter>
        <Parameter Type="Int32">1033</Parameter>
        <Parameter Type="Boolean">>false</Parameter>
      </Parameters>
    </Method>
    <Identity Id="9" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:st:TKE6KUANlkq7BYswGJADmQ==" />
    <Identity Id="438" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgoJxHR1yEPHpfO4TLE/q+LO3BVzkIKTgLJSE0ezL
W5V0ZTi6g==" />
  </ObjectPaths>
</Request>

```

The protocol server returns the new **Label** object (section [3.1.5.10](#)).

Response:

```

[
{
"SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3410.1000","ErrorInfo":null
},443,{
"IsNull":false
},444,{
"_ObjectIdentity_":"fec14c62-7c3b-481b-851b-
c80d7802b224:la:;1033;Baker;TKE6KUANlkq7BYswGJADmQGpI3ewiWBMvXAXIgoJxHR1yEPHpfO4TLE\u002fq+LO
3BVzkIKTgLJSE0ezLW5V0ZTi6g=="
}
]

```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

Preliminary

6 Appendix A: Product Behavior

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

- Microsoft® SharePoint® Server 15 Technical Preview

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

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

7 Change Tracking

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

Preliminary

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